

GAINS Virtual Training Course Order Form

Company or Affiliation _____

Contact Person _____

Address _____

Address _____

City _____ State/ Province _____ Zip / Postal Code _____

Country _____ Telephone _____ Fax _____

Email _____ Date: _____

(Print name) _____ Title: _____

Completing and emailing (staff@eegs.org) this form indicates you or those you represent are government employees who wish to participate in EEGS' new Geophysical Applications in Near Surface (GAINS) training course. The course is a 14-week virtual course designed for those looking for an introduction or refresher on practical applications in engineering and environmental geophysics. Beginning on Wednesday, October 9, 2024, EEGS' Education Committee will host Subject Matter Experts who will conduct 2-hour modules on Wednesdays (see page 2 for schedule).

EEGS can create an invoice for the training program, or you can pay the fee(s) by credit card. EEGS staff will contact you directly to discuss payment options and the course registration process.

Non-Member Registrants	Number Participating	Description	Rate
Standard Registrant		GAINS training and 2025 Membership (expires Dec. 31, 2025)	\$ 140
Student Registrant		GAINS training and 2025 Membership (expires Dec. 31, 2025)	\$ 20

EEGS Current Member Registrants	Number Participating	Description	Rate
Standard Registrant		GAINS training	\$ 0
Student Registrant		GAINS training	\$ 0

For more information, including the training schedule and module speakers, please visit <https://www.eegs.org/gains>.

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

Curriculum Outline

Week No.	Date:	Lecture Topic:	Subject Matter Expert:
1	Oct 9	Introduction and Overview	Sarah Morton Rupert, Ph.D., Bureau of Reclamation Dale Werkema, Ph.D., Environmental Protection Agency
2	Oct 16	Survey planning and initial site characterization	EEGS Education Committee
3	Oct 23	Utility locating, storage tank and metal detection, corrosive material mapping	Trever Ensele, Prospect Geophysics
4	Oct 30	Dam/levee integrity & seepage monitoring	Phil Sirles, Collier Geophysics LLC
5	Nov 6	Hydrogeology such as aquifer mapping, groundwater/surface wave interaction	Scott Ikard, Ph.D., U.S. Geological Survey
6	Nov 13	Voids, karst, and sinkhole mapping/detection	Jacob Sheehan, 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		
8	Jan 29	Shallow mineral deposits and hydrothermal resources	Karen Christopherson, Chinook Geoconsulting, Inc.
9	Feb 5	Hydrostratigraphic characterization, contaminant monitoring	Judy Robinson, Ph.D., and James St. Clair, Ph.D., Pacific Northwest National Laboratory

10	Feb 12	Seismic hazard (Vs30) mapping including low-velocity zones, liquefiable layers	Koya Suto, Terra Australis Geophysics Paul Somerville, Ph.D., AECOM
11	Feb 26	Freeze-thaw, permafrost, glacial terrain mapping	Esther Babcock, Ph.D., Logic Geophysics and Analytics LLC
12	Mar 5	Structural/geologic mapping such as faults, fracture zones	Sage Wagner, Terracon
13	Mar 12	Course Summary and Review	EEGS Education Committee

14 TBD In-person field demonstration at SAGEEP 2025 in Denver, Colorado SAGEEP vendors

**Please note the SAGEEP 2025 conference dates are tentative.*

EEGS Education Committee:

Sarah Morton Rupert, Ph.D., Bureau of Reclamation
 Paul Schwering, Pacific Northwest National Laboratory
 Miriam Johnston, Bureau of Reclamation
 Nadia Fantello, S&ME