

GEOPHYSICS WORKSHOP

Surface Geophysical Methods for Hydrological Assessment

Instructor: Dr. Dale Rucker, hydroGEOPHYSICS Inc.

Time: 8AM – 12PM | Date: Wed, Sept 14 | Room: Ballroom E

Place: Casino Del Sol, Tucson, Arizona

Registration Link: <https://ahs9.wildapricot.org/event-4692212>



Instructor Dr. Dale Rucker

Description

Geophysical technologies are proven and cost effective, allowing the targeted, large-scale holistic assessment of near-surface hydrological features. However, they are often poorly understood among those who assess hydrological systems and often overlooked in favor of more traditional, yet limited, exploratory techniques such as drilling. Surface geophysics is used as a noninvasive target recognition tool for...

- Assessing depth to the water table for unconfined aquifers
- Mapping lithostratigraphic formations for aquifer delineation
- Characterizing and monitoring formations for aquifer storage and recovery
- Exploring new groundwater sources
- Investigating hyporheic zones and groundwater-surface water interactions
- Characterizing the distribution of soil moisture in unsaturated zones
- Delineating inorganic contaminant plumes
- Mapping geological structure for hard rock aquifers
- Investigating karst features

This Geophysical Workshop is in cooperation with the Arizona Hydrological Societies 34th Annual Symposium. However, you do not have to attend the Symposium to attend the workshop.



About Dr. Dale Rucker

Dale Rucker is the Chief Technical Officer for hydroGEOPHYSICS, Inc (HGI) and holds a doctorate in hydrology and water resources from the UA. As CTO, he is responsible for the technical direction of the company, including the development of new hardware, software tools, and interpretation for geophysical methods aimed at solving hydrological and engineering problems. He is a member of SEG, EEGS, AGU, SME, and EAGE. He was also the editor of the Journal of Environmental and Engineering Geophysics.

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34th ANNUAL SYMPOSIUM OF THE
ARIZONA HYDROLOGICAL SOCIETY

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CASINO DEL SOL
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