

# GEOPHYSICS FOR GEOTECHNICAL CHALLENGES

## WEDNESDAY, JULY 13 | 11 AM - NOON | ZOOM

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**Dr. Nigel Crook**  
**Geophysicist, Regional Manager**  
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### TOPICS COVERED

- Fundamentals of geophysics
- Seismic surveys in support of geotechnical investigations
- Electrical resistivity imaging for void detection
- Structural monitoring using geophysics

### ABOUT HGI

Using geophysical characterization methods for geotechnical problems has become a critical part of geotechnical engineering. Geophysical methods and technologies support geotechnical engineers with detailed information that aids in designing, planning, constructing, and operating structures on or below the earth's surface. Whether it is to understand the physical properties of subsurface materials, identify geologic hazards, or foundation studies, the mapping of geophysical properties can provide a much greater level of confidence to your geotechnical project.

Dr. Nigel Crook is a geophysicist and the California Regional manager for hydroGEOPHYSICS, Inc. (HGI). He has a strong background in geotechnical, mining, and environmental-related areas and holds a BS in Geology and Geophysics, MS in Archaeology, and a Doctorate in Geophysics from the Manchester Metropolitan University.



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