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ILLINOIS STATE GEOLOGICAL SURVEY SEMINAR SERIES

Solid as a Rock: How Engineering Geology Relates to Transportation Asset Management

Dr. Scott Anderson
BGC Engineering Incorporated
2017 Jahns Lecturer - Association of
Environmental & Engineering
Geoscientists (AEG)

Highway systems were built over a short period of time and to an envisioned design life that is expiring. Owners of transportation infrastructure are finding a pressing need to get the most of what they have and to build new inventory with this kind of thought in mind. This requires risk-based strategies for management of assets such as bridges, pavement, subgrade, embankments, walls and slopes, and it also requires a clear look at what type of performance is expected, and what is actually needed. Settlement, heave, slope movements, longevity under the influence of scour and corrosion are some of the ways this performance can be measured for structures of soil and rock. The engineering geologist can explain that change happens and relatively few things are 'solid as a rock'. The change represents a risk that the engineering geologist can help characterize and view in parallel with risks from natural hazards.

About the speaker:

Dr. Anderson recently joined BGC Engineering as a Principal Geotechnical Engineer. Prior to joining BGC he worked as the Geotechnical Engineering Technical Services Team Manager for the Federal Highway Administration's (FHWA) Resource Center where he led a national team of geotechnical engineers that assisted state and local transportation agencies through technical assistance, training and the deployment of new technologies. Dr. Anderson has also previously worked in positions from Staff Geologist to Senior Consulting Engineer and Landslide Technology Leader for a major A/E design firm and spent four years as an Assistant Professor of Civil Engineering at the University of Hawaii. He earned his Bachelor's and Master's degrees in engineering geology from the University of Colorado at Boulder and Colorado State University, and Master's and Doctorate degrees in civil engineering from the University of California at Berkeley. He is a licensed engineer and practicing engineering geologist with over 30 years of experience and approximately 100 publications and invited presentations, and he makes his home in Colorado.



2:00 PM

NATURAL RESOURCES BUILDING
ROOM 101 (LEIGHTON CONFERENCE ROOM)
615 EAST PEABODY DRIVE, CHAMPAIGN IL 61820

PARKING NOTICE: Paid parking is available at meters along Pennsylvania and Sixth Streets, and Lot E21 on the west side of the building.

The Illinois State Geological Survey seminar series is organized by the ISGS Seminar Committee.

