

Web Conference Lunch-and-Learn

Sponsored by:



Friday, December 9, 2022: 1:15 pm to 1:50 pm EST

Mitigating Seismic Extreme Events using Deep Soil Mixing

Jim Gingery, Ph.D., P.E., G.E. - Chief Engineer, Keller – North America

Deep soil mixing (DSM) is an increasingly popular ground improvement technique to provide foundation support for structures and to mitigate seismic hazards. DSM is a powerful method thanks to its ability to treat nearly all soils and its flexibility to form different geometric shapes. This presentation will provide an overview of the DSM construction method and typical QA/QC measures. Case histories will be used to illustrate the design and construction of DSM to mitigate extreme seismic events including surface fault rupture, liquefaction, and lateral spreading. Attendees will gain a deeper understanding of how DSM can be employed to solve challenging earthquake engineering problems.