

MITIGATING SEISMIC HAZARDS WITH DEEP SOIL MIXING

TUESDAY, OCTOBER 18 | 11 AM - NOON | ZOOM

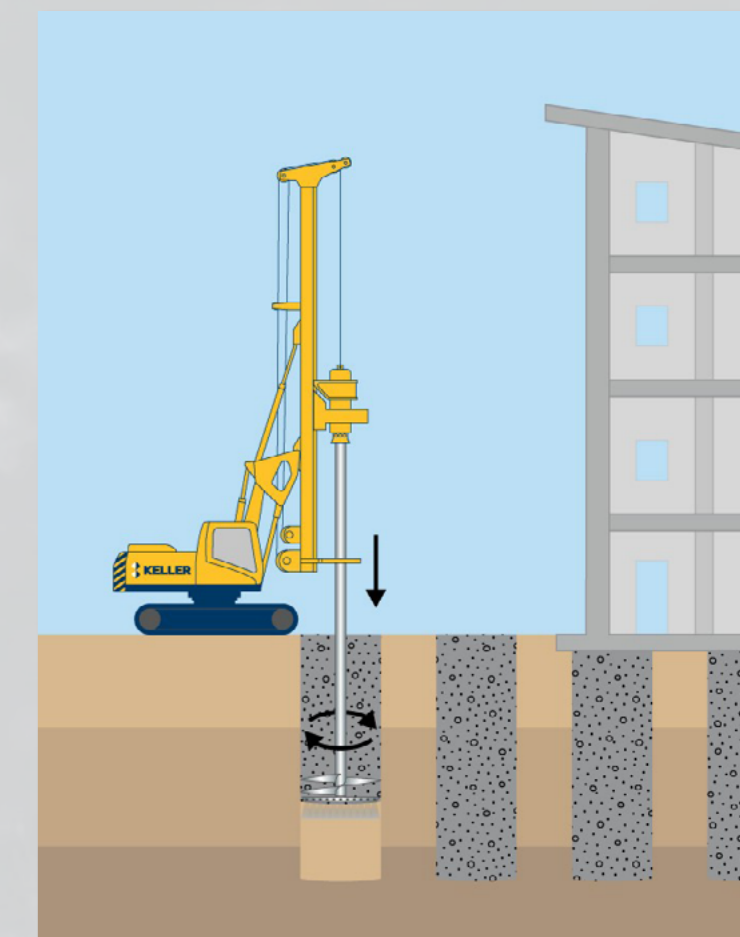
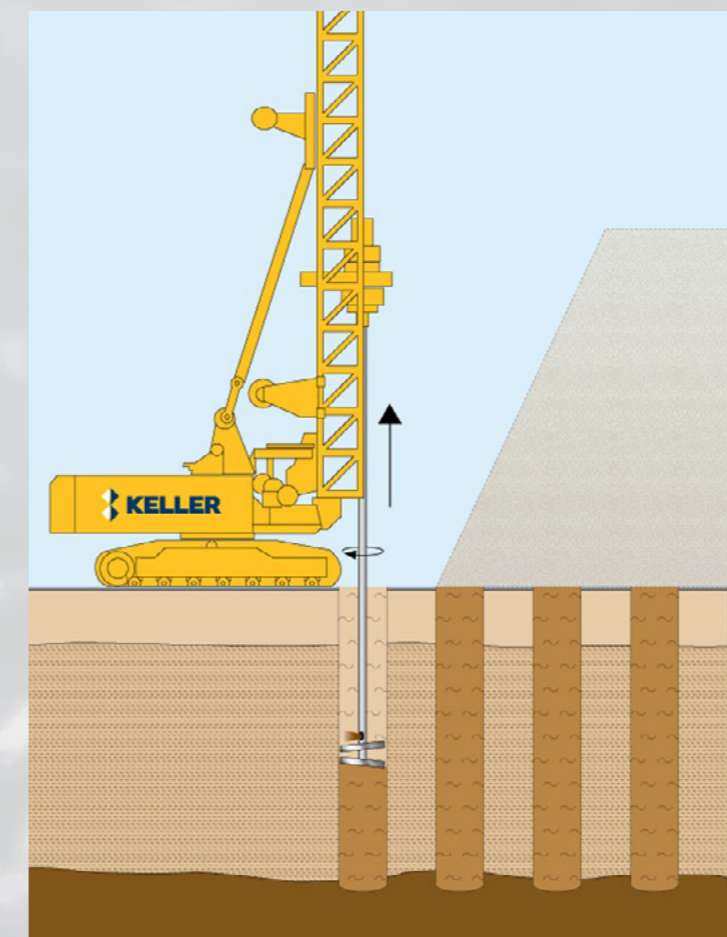
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James Gingery, PhD, PE, GE
Chief Engineer

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 seismic hazards 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.

Dr. Gingery is a Chief Engineer in Keller North America's (formerly Hayward Baker) Western US business unit. He has over twenty-five years of experience in geotechnical and earthquake engineering for water, energy, transportation, industrial/commercial, and residential projects. At Keller he leads a team providing ground improvement and geotechnical engineering for design-build projects across the Western US and beyond. Dr. Gingery holds an MS in geotechnical engineering from UC Berkeley and a PhD in geotechnical earthquake engineering from UC San Diego. He is a licensed Geotechnical Engineer in California and a Professional Engineer in multiple states. In 2015 he was awarded the Shamsher Prakash Prize for Excellence in the Practice of Geotechnical Engineering.



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