



UC Berkeley Geosystems Engineering Wednesday Lecture Series

Wednesday, October 4, 2023

12:10-1:00 PM

Lecture Room: 406 Davis

UTILIZING TORQUED PILES FOR A SENSITIVE STRUCTURE

David Wang and Frank Wang, PARIKH Consultants, Inc.

Torqued piles proved the answer for foundation support of a sensitive structure in Oakland with challenging subsurface conditions, i.e., high liquefaction potential. This project had multiple other constraints to consider, such as limited right-of-way for construction and the presence of a critical underground facility adjacent to the new improvement.

During this presentation, we will discuss the subsurface conditions and the multiple strategies considered for mitigating the liquefaction impact, as well as different types of deep foundations that were considered. Join us to understand the reasons behind selecting torqued piles as the ultimate design solution and to examine their performance through load tests.



David Wang (Ph.D., UC Berkeley, 1986) is one of the founding Principals of PARIKH since its inception. He has extensive experience with infrastructure projects throughout California, including Presidio Parkway (Doyle Drive Replacement) and BART Warm Springs West Access Bridge.

Mr. Frank Wang (MS, UC Berkeley, 2001) is a Principal with PARIKH who has 20+ years of experience in conducting geotechnical investigations for various public projects, including the 10-mile BART SVBX project and many interchange projects in the Bay Area.