The University of Texas at Austin
Civil, Architectural and Environmental Engineering
Cockrell School of Engineering

The Geo-Institute Graduate Student Organization at the University of Texas at Austin

will be hosting:

The 2019-2020 DFI Traveling Lecturer

Willie M. NeSmith, P.E.

Willie M. NeSmith, P.E., is the former chief geotechnical engineer for Berkel & Company Contractors. NeSmith received a B.S. in civil engineering from the Georgia Institute of Technology in 1974, and for the following 25 years worked as a consulting geotechnical engineer on projects in the U.S., the Middle East and Africa. He began to specialize in deep foundations in 1990, and joined Berkel & Company in 1999, after serving as a consultant for implementation of Berkel's displacement pile system. He is a leading authority on the design and installation of cast-in-place displacement piles in the U.S., having designed or evaluated over 200 displacement pile projects nationwide. NeSmith has authored over 20 professional publications and is a past member of the DFI Augered Cast-in-Place (ACIP) Pile Committee. He also served as the lead instructor for the DFI ACIP Short Course. NeSmith received his first professional registration in Georgia in 1978.

The Application of Drilled Displacement Elements for Liquefication Mitigation and Foundation Improvement

When drilled displacement piles are installed in materials that exhibit granular behavior, there is a significant increase in density in the vicinity of the piles. The increase is most pronounced in loose to medium dense materials and can be utilized to mitigate liquefication and increase the foundation response stiffness of the mass of the material penetrated. Case histories are presented wherein ground improvement elements were installed using drilled displacement pile processes to mitigate liquefaction and increase allowable foundation loading.

Date: Friday, February 21, 2020

Time: 12 PM – 1 PM

Location: 301 E Dean Keeton, Austin, Texas 78712, Room ECJ 3.402

For more information contact Reihaneh Hosseini at reihos@utexas.edu.