



Glenn Department of

CIVIL ENGINEERING

Clemson University



GEO-
INSTITUTE

Clemson University Graduate
Student Organization

Monday, March 14 @ 11:15-12:15

Venue: Lowry Hall 100



ASCE GI CROSS USA LECTURER



SILAS NICHOLS

Talks on:
**Challenges with Large
Diameter Foundation
Elements**

Bio: Silas Nichols is the Principal Geotechnical Engineer for the Federal Highway Administration's Office of Infrastructure and is internationally recognized. His professional experience includes design and construction services for numerous routine, and complex or unusual projects throughout the US.

Abstract: Recent innovations in construction equipment combined with increased load carrying demands for foundation elements have resulted in significantly larger and deeper foundation elements that have tested our capabilities. Challenges have emerged in many areas including equipment requirements, materials standards, and construction means and methods.

The presentation will address efforts to optimize drilled shaft design, evaluate design methodologies for large diameter open-ended pipe piles, update guidance for acceptance of large diameter foundation elements, and address future research needs for the geotechnical and foundations community.

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