



2024 CONFERENCE | APRIL 3-5, 2024 | MARRIOTT JACKSONVILLE DOWNTOWN

Thursday, April 4, 2024

8:45 – 9:45 am	<p>Effects of the Implementation of 100 Percent Dynamic Load Testing Mitchell Foster, PE – Senior Engineer, Terracon Consultants, Inc. Mingu Kim, PhD, PE – Principal Engineer, Terracon Consultants, Inc.</p> <p>The presentation will focus on the potential effects of 100 percent dynamic testing as they relate to the recent changes to the FDOT specifications. We will present case histories demonstrating the benefits and potential risks of 100 percent dynamic load testing.</p> <p>1 PDH</p>
10:00 – 11:00 am	<p>Interstate 95 Emergency Rebuild – A Creative Partnership Archie Filshill, PhD, ENV SP – CEO, Aero Aggregates of North America, LLC</p> <p>On the morning of June 11th, 2023, a tanker truck carrying approximately 8,500 gallons of gasoline crashed and caught fire on the Cottman Avenue exit ramp under Interstate 95 in northeast Philadelphia. The fire collapsed the bridge carrying the northbound lanes of the interstate and severely damaged the southbound bridge. As I-95 through Philadelphia is one of the most highly trafficked travel corridors in Pennsylvania, PennDOT was greatly concerned with the speed of reconstruction. Ultra-lightweight Foamed Glass Aggregate (UL-FGA) is a lightweight fill alternative that was a critical component of the I-95 rebuild and supported the accelerated schedule and provided a path to reopening the interstate only 12 days post-collapse. This presentation will review the engineering properties of UL-FGA and the common infrastructure applications where a UL-FGA lightweight fill solution may warranted. The I-95 Emergency Rebuild will be presented in detail including the design, construction, and project timeline.</p> <p>1 PDH</p>
1:45 – 2:45 pm	<p>The Use of a Strain-Based Method of Augercast Pile Design James Niehoff - Geotechnical Service Line Leader, NOVA Engineering & Environmental, LLC</p> <p>The calculations for the allowable capacity of augercast piles are currently based upon the ultimate side shear and end bearing capacities of geologic strata, reduced by safety factors. However, the movements required to mobilize side shear and end bearing capacity are significantly different. Consequently, current pile design approaches are inconsistent with actual pile behavior. Considering this, the author has developed an advanced method of pile design which takes into consideration the movements required to develop side shear and end bearing. In this manner, an appropriate pile length may be selected to support loads with an appropriate composite safety factor.</p> <p>1 PDH</p>



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<p>3:00 – 4:00 pm</p>	<p>Innovative Deep Foundation Solutions for Florida Projects Matt Robertson, PE – Morris-Shea Bridge Company</p> <p>This presentation seeks to provide innovative deep foundations solutions to engineers for consideration in Florida high rise, hospital, and public works projects. Unprecedented population growth and urbanization in Florida is leading to a boom in vertical construction, especially in areas with less than desirable geotechnical conditions. The design and installation process will be presented along with several successful Florida case studies.</p> <p>1 PDH</p>
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Friday, April 5, 2024

<p>8:30 am – 9:30 am (1 PDH)</p>	<p>What’s in your Contract? Managing Risk through Contract Language Mark Jackson, ARM - Partner, JCJ Insurance Agency Erin Johnson, RPLU -Partner, JCJ Insurance Agency</p> <p>This course demonstrates how contract language can affect the outcome of a claim. Learn key contract provisions every design professional should be able to identify and explore ways to avoid uninsurable risks in contracts. We will also review two important contract clauses that should be included with every client contract - Limitation of Liability and Individual Protections for Design Professionals. The Limitation of Liability clause limits the firm’s liability and Individual Protections for Design Professionals clause enables firms to negotiate contracts that protect their professional employees from being sued individually by their clients.</p> <p>1 PDH</p>
<p>9:45am – 11:45 am</p>	<p>Laws, Rules, & Ethics Edwin A. Bayo - Grossman, Furlow, and Bay, LLC</p> <p>Professional Engineers in Florida are required to earn 18 Professional Development Hours of board approved continuing education during the biennium cycle. These must include 1 hour of Laws & Rules on Chapters 471 F.S. and 61G15 F.A.C. and 1 hour of Professional Ethics. This 2-hour course fulfills this requirement.</p> <p>2 PDHs</p>