## 2019 ASCE North Carolina Spring Technical Seminar
### The Hotel Ballast - Wilmington, NC

**Registration** 8:00 AM - 9:30 AM

<table>
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<tr>
<th>Discipline Track</th>
<th>Geotechnical</th>
<th>Water Resources</th>
<th>Transportation</th>
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<tr>
<td>Meeting Room</td>
<td>Latimer</td>
<td>Skinner</td>
<td>McRae</td>
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<tr>
<td>Moderator</td>
<td>Stephanie Pluta</td>
<td>Brooke Maloney</td>
<td>Brian Pownall</td>
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### Session 1
9:30 AM - 10:20 AM

**Five Ways to Improve the Cost and Performance of Ground Improvement for Foundation Support Projects**
- Zach Scarboro, P.E.
- Geotechnical, Inc.

**Hurricane Florence and Woodlake Dam**
- Laura Shearin-Feimster, P.E.
- Schnabel

**Effect of Blue Line Light Rail Transit System on Operational and Safety Performance in the UNC Charlotte Area**
- Srinivas S. Pulugurtha, Ph.D., P.E., Swapneel R. Kodupuganti, Sarvani Duvvuri, and Sonu Mathew
- The University of North Carolina at Charlotte

### Session 2
10:30 AM - 11:20 AM

**Micropile Design – Types, Connections, Lateral Loading and Group Effect**
- Jeffrey W. Coonse, P.E.
- Subsurface Construction Company, LLC

**New Hanover County, Coastal Shoreline Infrastructure**
- Layton Bedsole, P.E.
- New Hanover County

**Bridges for Prosperity**
- Chris Busch
- Geo Hydro Engineers

### Session 3
11:30 AM - 12:20 PM

**Seismic Ground Motions – North Carolina Practice**
- Md. Ariful (Arif) Bhuiyan, Ph.D., E.I.T.
- S&ME

**Effect of Environmental Buffers on Water Quality related to Contaminant of Concerns**
- Sol Park, Xueying Brown, Olya Keen and Mariya Munir
- The University of North Carolina at Charlotte

**Can We Predict How to Maintain Roads in 2040?**
- Chandler Ducan, AICP
- Metro Analytics

### Lunch 12:30 PM - 1:50 PM

**Keynote Speaker - Justin Jacobsen, PMP, PSP, CM-Lean presenting on the River Place P3 Project**

### Session 4
1:50 PM - 2:40 PM

**Geopolymer: A Concrete Foundation for a Sustainable Future**
- Roisin Hyde and Brett Tempest
- The University of North Carolina at Charlotte

**TBD**
- NC Ports Authority
- NC Ports Authority

**Cliffside Chimney Repair**
- Mike Parker, P.E.
- SKA Eng

### Session 5
2:40 PM - 3:30 PM

**Coatings - Processes and Procedures**
- Tim Greene
- S&ME

**Mid Coast Corridor Project**
- Santiago Aguilar, P.E.
- Louis Berger

**Steel Joists / BIM - CA Phase Coord**
- Lee Clements
- Weidion Steel