

**CEE 595F – Geotechnical Seminar – ONLINE**

Friday, December 3, 2021 | 11:00am Central Time | 3310 NCEL

**Challenges and Lessons Learned from Carving a River through a Contaminated Urban Environment****Geosyntec Consultants**

**Jim Hansen**, P.E., received his B.S. (2007) and M.S. (2008) degrees in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign. He is a senior engineer in Geosyntec's Oak Brook, Illinois office with over 12 years of geotechnical engineering consulting experience. Mr. Hansen's project experiences span the transportation, infrastructure, and development sectors and include the design of deep foundations, support of excavation, landslide stabilization, liquefaction mitigation, and settlement mitigation and monitoring.



**Thierno Kane** received his B.S. (2012), M.S. (2013) and Ph.D. (2019) degrees in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign. Since joining the Geosyntec Consultant's Oak Brook, Illinois office in 2020, he has worked on a variety of geo-environmental projects involving geotechnical investigation and characterization, value engineering, design of foundation and earth retention systems, evaluation and design ground improvement methods for soft soils and instrumentation of pipelines in landslide prone-regions.

**Abstract:** The Waterfront Toronto project is the largest urban redevelopment project currently underway in North America and presents numerous challenges spanning geotechnical, environmental, and water resources engineering. The presentation will discuss the design and construction of several aspects of the project, including nearly two miles of structural cutoff walls, settlement mitigation of peat, large-scale dewatering, and environmental mitigations.