Tufts CEE Seminar Series Presents

Theodore von Rosenvinge
Geotechnical Engineer, President
GEO groups; GEO Design and GEOMechanics

Topic: Heavy Manufacturing Building Over Soft Marine Clay Profile
Friday November 20, 2020 – 12:00pm – Virtual Event

Theodore (Ted) von Rosenvinge is a geotechnical engineer educated at Northeastern University (BS 1978) and MIT (MS 1980). He is President of the GEO group of companies, GEODesign (CT/NJ/NY/VT) and GEOMechanics (OR). The firm is celebrating 25 years in business as a geotechnical engineering firm and has completed 1000's of projects including major bridge and hi-rise buildings. Hailing from nearby Winchester and Gloucester, Massachusetts, he lives in Connecticut close to New York City. He is an ASCE Fellow, member of The Moles, a registered professional engineer in 13 states, and an experienced sailor having crewed in the 2019 TransAtlantic race and 15 US to Bermuda races (yes you can have a life and a career as an engineer!).

The seminar will be discussing how the depositional history of Lake Champlain in Vermont is complex involving multiple glacial episodes and a once inundated Champlain Sea with sensitive marine clays. Planning for a heavy industrial facility expansion over these clays with bedrock over 250 feet deep drove exploration of other nearby sites for more favorable conditions with thinner clay deposits. This case history will present the exploration program of deep CPT and test borings leveraged with geophysics to cover a large property to identify the best site. The importance of clay sample disturbance for this site will be demonstrated by comparison of lab results from Tufts using special procedures to results from conventional methods.