Meeting Post-Katrina Geotechnical Challenges and Contribution to Geotechnical Engineering

Abstract: This presentation will focus on the geotechnical laboratory testing performed by the FFEB joint venture in order to address the safety concerns of the New Orleans levees following Hurricane Katrina. The first half of the presentation given by Byron Porter will focus on the FFEB activities including field investigation, laboratory test and engineering works. The second half of the presentation given by Jeong-Yun Won will cover the details of geotechnical laboratory testing efforts. Preliminary experimental analysis results from extensive consolidation testing will be discussed.

Presenters:
Byron Porter, P.E.
Fugro Consultants, Inc. / Director of FFEB JV Geotechnical Laboratory

Mr. Porter earned a M.S. degree from the University of Texas at Austin in 1975 and is a P.E. registered in Texas and Louisiana. He has worked for Fugro for more than 25 years. Mr. Porter is the director of FFEB JV (a joint venture of Fugro, Stantec, Eustis and BCD) geotechnical laboratory, which is one of the largest and most advanced geotechnical laboratories in the country. The FFEB has carried out challenging tasks for last two years, which might be the biggest single geotechnical project in the history.

Jeong-Yun Won, Ph.D., P.E.
Fugro Consultants, Inc. / FFEB JV Laboratory Manager

Dr. Jeong-Yun Won earned a Ph.D. degree from Seoul National University, Korea, in 2004, then spent 3 years in the University of Texas at Austin as a post-doctoral scholar. He has worked for Fugro Consultants since 2007 as a geotechnical laboratory manager. He won an excellent research paper award from Korean Geotechnical Society in 2004. His publications are specialized in soft clay engineering covering consolidation and shear strength of natural marine clay. Dr. Won is managing advanced tests in the FFEB JV geotechnical laboratory, including 5 partner laboratories. The advanced tests include 4-in diameter consolidation, direct shear, direct simple shear and CU triaxial tests.