

THE FUTURE OF GEOTECHNICAL ENGINEERING

Speaker: Giannis Kallika

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ABSTRACT

The 21st century has been a flagship for the increase in technological and artificial intelligence. As a result, it brought a number of changes to the way geotechnical engineers work and develop their designs. The speaker will explore the skills that in his opinion will be required by future engineers and also present technological innovations which will have the greatest impact on geotechnical engineering applications.

Short bio: Giannis works as Senior Assistant Geotechnical Engineer for AECOM in UK and has been shortlisted for the Ground Engineering Rising Star Award. Giannis is currently working for the A303 Stonehenge twin bore (13.5m diameter) road tunnel as Interface Manager. He is responsible for various management activities for DCO, Stakeholders, DBFM and Lands work streams. Giannis's practical and theoretical engineering experience enabled him to work on high profile projects such Crossrail, Hinkley Point C, Limassol New port, Larnaca Port and Marina, Brent Cross, Shieldhall and Mersey Gateway as well as supervise small scale projects such as piling works at Moberly and ground investigation at Burton upon Trent. Giannis has been involved in various aspects of design work which include ground/data interpretation, deep and shallow foundations design, reinforced earth design, ground improvement (Vibro Stone Column) design, settlement analysis and damage assessment, slope stability analysis, retaining wall analysis and 2D finite element analysis.