

Yorkshire Geotechnical Group

An overview of grouted anchor technology with particular reference to UK practice

Tuesday, 13th April 2021, 18.00 - 19.30 – Online meeting

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ice
Institution of Civil Engineers

ABSTRACT

The objective of the presentation will be to cover the state of current grouted anchor practice within the broad context of design, construction and testing, paying due regard to the effect of the introduction of Eurocodes and their influence on UK practice.



Having been fortunate enough to work on a variety of projects both in the UK and overseas, it is particularly interesting when special projects accomplish a number of world firsts. In this regard the latter part of the presentation will be devoted to describing a special case history where the world's largest capacity cyclically loaded anchors were constructed for the raising of a crucial water supply dam in South Africa. It is hoped that the presentation will provide an improved fundamental understanding of grouted anchor technology, its status within UK geotechnical engineering practice and how these systems are used to provide viable structural support solutions to structures where the consequences of failure are classified as high.

Dr Devon Mothersille has compiled 30 years' experience in consulting and contracting engineering practice. He received his Ph. D from the University of Bradford for his research on the influence of close proximity blasting on the performance of rock anchor and rock bolt systems. He is a Fellow of the Institution of Civil Engineers and the Managing Director of two specialist consultancy practices (Geoserve Global Ltd and Single Bore Multiple Anchor Ltd). He is an active member of committees tasked with the implementation of Eurocode 7, covering the design and execution of grouted anchors, and as Convenor to ISO/TC182/WG3, he successfully delivered the long awaited testing standard for grouted anchors (BS EN ISO 22477-5: 2018). He is Chairman of the UK Ground Anchors Panel and was one of the technical authors for the revision of the British Code of Practice for Grouted Anchors (BS8081: 2015 +A2: 2018).

This meeting will be held via Microsoft Teams – links to the meeting are given on the ICE and BGA websites.

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