

## BGA Evening Meeting

Wednesday 15th May at 18:00

Institution of Civil Engineers, One Great George Street, London, SW1P 3AA

### Ground Anchors: An Overview of Grouted Anchor Technology with Particular Reference to UK Practice

**Devon Mothersille**  
**Geoserve Global**

#### Summary:



Grouted anchors are a technology that is extensively used on a worldwide basis for the support of geotechnical engineering structures. These can vary from retaining structures for slopes and deep excavations, applications for uplift resistance in tunnels and storage tanks with working loads typically up to 2000 kN, to ultra-high capacity systems used for dam upgrades with test loads exceeding 19000 kN.

The objective of the presentation will be to cover the state of current 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.

The latter part of the presentation will be devoted to describing a special case history where the world's largest capacity anchors were executed for the raising of a crucial water supply dam in South Africa.

It is hoped that the presentation will provide the audience with 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 regarded as high.

#### Programme

17:30 Tea/coffee - Brasserie  
18:00 Lecture followed by Q & A  
19:15 Drinks reception – ICE Café Bar

#### Registration

Book online:

t: +44 (0)20 7665 2007  
e: [bga@britishgeotech.org.uk](mailto:bga@britishgeotech.org.uk)

#### Drinks reception sponsor



*Further information overleaf/*

## Ground Anchors: An Overview of Grouted Anchor Technology with Particular Reference to UK Practice (cont'd)

### Biography

Dr Devon Mothersille received his Ph.D from the University of Bradford for his work investigating the influence of close proximity blasting on the performance of grouted anchor systems in rock. He is a Fellow of the Institution of Civil Engineers and the Managing Director of three specialist ground anchor consultancies (Geoserve Global Ltd, Single Bore Multiple Anchor Ltd and AnchorTest Ltd) that have successfully delivered services across five continents. He acts as an expert witness on legal cases related to grouted anchor and soil nailing technologies and is an active member of committees tasked with the implementation of Eurocode 7, covering the design, execution and testing of grouted anchors. As Convenor to ISO/TC 182/Working Group 3, 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).



**Please join us in the ICE Café Bar afterwards for drinks sponsored by**



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