



Dr C O Menkiti
BSc MSc PhD DIC
Senior Partner

Areas of expertise

Tunnelling, deep excavations, foundation systems, soil slopes, soil nailing, instrumentation & monitoring, soil investigation, characterisation & testing, compensation grouting, earthworks and seismic design.

Experience with GCG

Dr Menkiti joined GCG in 1992 and became a Director in 2008, then a Senior Partner when the company became an LLP in 2011. Since joining GCG, he has had wide experience in the UK and abroad. Dr Menkiti has provided specialist advice on tunnel design and construction and the effects of ground movements. He has also been involved in the geotechnical aspects of design and construction of a wide range of structures and their foundations, including retaining walls, deep excavations, sewage plants, pipelines, bridges, highways, embankments, petrochemical offshore facilities, land reclamation, ground improvement and power stations. Dr Menkiti has given specialist advice on seismic design and retrofit of tunnels and retaining walls. A large part of his experience was gained under secondment to owners, consultants and contractors.

In 1995-7, Dr Menkiti was seconded to the Client's site team at Contract 102 for the construction of the JLE Project in London, where tunnelling methods included sprayed concrete (NATM). He advised on instrumentation, monitoring, compensation grouting, tunnel behaviour and the impact of construction on structures and services.

From 1998 to 2001, Dr Menkiti was seconded to site in Bolu, Turkey, for construction of deep highway tunnels through very complex ground. As Chief Tunnel Design Engineer, he was responsible for review and co-ordination of design submissions, planning and interpretation of instrumentation and geotechnical investigations. Dr Menkiti was involved in evaluating the effects of the large earthquakes of 1999 on the tunnels and developing appropriate remedial measures.

From 2001 to 2004, Dr Menkiti was assigned to the design team for the Dublin Port Tunnel in Ireland. For this design and build contract, Dr Menkiti initially served on site for two years as the project Geotechnical Engineer, responsible for the design and construction of temporary and permanent works. Thereafter, he served in London as the design Team Leader for the DART underpass in Fairview Park.

Since 2004, Dr Menkiti has worked on a range of international infrastructure projects including Rome Metro C extension, Amsterdam North-South Metro, Dublin Metro North, 96th Street Subway New York, Warsaw Metro Line 2, London Underground Tunnels and the Crossrail Project. For Crossrail, in London, Dr Menkiti leads the GCG team that serves as geotechnical adviser to the Employer.

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GEOTECHNICAL CONSULTING GROUP

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He has worked on the side of Owners, Designers, Contractors and third parties affected by the works. Dr Menkiti has given technical advice to barristers and solicitors in legal cases involving ground engineering and is the author of about 35 published papers.

Areas worked

UK, Italy, Malaysia, Netherlands, Singapore, Turkey, Ireland, Poland, USA, Nigeria

Previous experience

Dr Menkiti attended the Civil Engineering course at Imperial College of Science Technology and Medicine, University of London between 1983 and 1986. He was awarded the Holligrave Scholarship as the top student on entry and the Governor's Prize for excellence in written exams on graduation. He completed the MSc course in Soil Mechanics at Imperial College in 1987 with distinction. His DIC dissertation was on the stabilisation of soil slopes using ground anchors.

Dr Menkiti undertook research in Soil Mechanics at Imperial College from 1988 to 1992, being awarded the Fellowship of the Exhibition of 1851. While there he developed and taught practical classes on the behaviour of footings on clay. His research was a study of the effects of anisotropy and the intermediate principal stress on soils, using the Imperial College Hollow Cylinder Apparatus. Following this work, Dr Menkiti has retained an interest in fundamental soil behaviour and the interpretation of laboratory and field tests to derive appropriate design parameters for practical engineering problems.

In 1995, Dr Menkiti worked in Italy under the auspices of the EEC, assisting in the development of soil mechanics research facilities at Politecnico di Bari in southern Italy.

In 1997-8, Dr Menkiti was seconded to a Civil Engineering Consultant in Malaysia and also to a specialist Contractor in Singapore. He provided geotechnical services on a wide range of civil structures. With the Consultant, he worked on the design of many projects. The Contractor was a specialist firm that manufactured and installed its own patented sheet pile sections, specifically designed to suit each individual job. Dr Menkiti served as the Geotechnical Manager responsible for all geotechnical aspects including proposal formulation, site investigation, design and construction supervision on projects including deep excavations, land reclamation, stabilisation of slope failures and river canalisation.

Education/Research

PhD, Imperial College, 1995

MSc (Distinction), Imperial College, 1987

BSc (1st Class), Imperial College, 1986

Scholarships/Awards

ICE London Civil Engineering "Greatest Contribution Award" 2014 for the Baker Street to Bond Street project

ICE John Mitchell Award 2013

British Geotechnical Association Medal, 2009

Fleming Award, 2004

Research Fellowship, EEC Human Capital Mobility Program, 1995

Fellowship of the Royal Exhibition of 1851, 1989 - 1991

Governor's Prize, Imperial College, 1986

Holligrave Scholarship, Imperial College, 1983 - 1986

Service on Technical/Professional Bodies

British Geotechnical Association (BGA) Executive Committee, 2009 – to date

Vice Chairman of the BGA, 2011 – 2013

Chairman of the BGA, 2013 – to date

Conference Organising Committee, ECSMGE, Edinburgh 2015, 2011 – to date

ISSMGE Technical Committee Member TC204 (Underground Construction in Soft Ground), 2010 – date