

GEOSERVE GLOBAL LTD.

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DR. DEVON MOTHERSILLE

SPECIALTY/SKILLS:

Specialist in ground anchor and soil nailing technology

GEOGRAPHIC BASE: Northampton, UK

TYPE OF COMPANY: Engineering consultancy
(Limited)

RESUMÉ

DR. DEVON MOTHERSILLE

EDUCATION

B.Eng (Hons) (Upper 2nd Class Honours) Civil & Structural Engineering
University of Bradford, UK (1985)

Ph.D. '*The influence of close proximity blasting on the performance of resin bonded rock bolts*', University of Bradford, UK (1989)

LETAPAEWE – Legal Experience Training Advanced Professional Award in
Expert Witness Evidence, accredited by Edexcel at Level 7 (Masters
Level BTEC – 2011)

PROFESSIONAL QUALIFICATIONS

Chartered Civil Engineer (UK)

Fellow, Institution of Civil Engineers (UK)

PROFESSIONAL SOCIETIES

Member, Deep Foundations Institute

PROFESSIONAL COMMITTEES

Appointed UK expert to CEN/TC288/WG14 – EN1537 'Execution of special
Geotechnical works – Ground Anchors

Appointed Technical Editor for revision of EN1537: 1999 'Execution of
special geotechnical works – Ground Anchors

Advisor to Evolution Group 1(EC7) – Design of Ground Anchors

Committee B526 (UK) – Geotechnics (Member)

Committee B/526/4 (UK) – Revision of BS8006-2, Soil Nailing (Member)

BSI Panel B/526/-/3 (UK) – Ground Anchors (Chairman)

CEN/TC288/WG2 (UK) – EN ISO 22477-5 'Testing of Ground Anchors'
(Chairman)

PRINCIPAL PROFESSIONAL DISTINCTIONS

- Winner of Institution of Civil Engineers Prize for ' Outstanding Undergraduate work in Civil Engineering' (1985)
- Winner of Institution of Civil Engineers Medal and Premium (National Papers Competition) for the paper; 'An Experimental Investigation to Determine the Performance of Impulse Loaded Rock Bolts' (1989)
- Winner of the Coopers Hill War Memorial Prize – The Institution of Civil Engineer's award for the paper "Chalk anchors: exhumation, load transfer mechanism and design guidelines" (2004)
- Presentation delivered to Indian Institute of Technology, Chennai, India (Nov)
- Chairman of Slope Engineering Conference, Ground Engineering, Olympia, London (July 2006)
- Deputy Chairman, session Chairman and delivery of three papers for International Conference on Ground anchors and anchored structures in service, ICE, London (Nov 2007)
- Delivery of Keynote lecture for ADSC Anchored Earth Retention Seminar in Boston, MA, USA (Nov 2010)
- Keynote lecture delivered to the Australian Geomechanics Society (Victoria Chapter), Australia (Feb 2011)
- Presentation delivered to Road Construction conference, Penza, Moscow (Nov 2011)
- Keynote presentation delivered to Joint Half-Day Seminar on Geotechnics in Hong Kong (March 2012)
- Presentation delivered to SEFE 7 conference in Sao Paulo, Brazil (June 2012)
- Presentation delivered to ANZ conference, Melbourne, Australia, (July 2012)
- Presentation delivered to 5th CIRIA mini-conference on Geotechnical issues in construction, London (Dec 2012)
- Presentation delivered to Japan Anchor Association, Tokyo, Japan (Jul 2014)
- Presentation delivered to DFI Slope Stabilization Seminar, Pittsburgh, PA (Aug 2014)

PROFESSIONAL EXPERIENCE AND BACKGROUND

MANAGING DIRECTOR, SINGLE BORE MULTIPLE ANCHOR (SBMA) LTD (2009 to present) AND GEOSERVE GLOBAL LTD (2001 to present)

Dr. Mothersille is the Managing Director of two consultancy practices; SBMA Ltd and Geoserve Global Ltd. SBMA Ltd provides worldwide consultancy advice and is the licensor for specialized, patented ground anchor technology, specifically used in soils and weak rocks. The scope of services includes all aspects of ground anchor design, construction testing, monitoring and maintenance. Geoserve Global Ltd provides consultancy services for general ground anchor and soil nailing technology and is also the platform from which Dr. Mothersille provides expert witness services in his specialist field. Dr. Mothersille is a member of several committees associated with the implementation of Eurocodes and Euronorms, and is the Chairman of British Standards Institution's Ground Anchor Panel which is tasked with the maintenance of UK ground anchor practice.

MANAGING DIRECTOR, SBMA LTD

Revision of BS8081:1989, UK - Specialist consultant to Coffey Geotechnics Ltd for the revision of the British code of practice for ground anchorages - project commissioned by British Standards Institute.

SOCAR Oil Refinery, Izmir, Turkey - Technical adviser to specialist anchor contractor Kasktas and Keller Grundbau, for the design, construction and testing of 2000 anchors installed in weak volcanic tuffs as part of a major slope stabilization scheme.

Hazelmere Dam, Durban, South Africa - Technical adviser to design consultant Ingerop (Pty) Ltd and responsible for the design, construction, testing and maintenance strategy for permanent rock anchors installed for a £25.5m upgrade of a 50m high concrete dam.

Temporary ground anchors (SBMAs) for Kuntsevo Plaza, Moscow, Russia - Licensor and technical adviser to specialist anchor contractor Kasktas (subsidiary of the ENKA Group, Turkey) for the design, construction and testing of 3600 anchors installed in highly challenging weak ground. Kuntsevo Plaza is a residential and commercial facility costing US\$300m and comprising complex foundation works exceeding US\$24.4m.

Expert Witness to Van Elle Ltd, UK - Expert witness to specialist geotechnical contractor Van Elle Ltd, in relation to corrosion protection of monobar anchors installed in limestone to support four retaining walls on the 23km long M1 widening scheme (J25-J28).

Foundation Support for Al Quds Tower, Doha, Qatar - Technical adviser to SBMA licensee and specialist geotechnical engineering contractor Ammico Contracting Co W.I.I. (based in Doha) for the design, construction and testing of over 1500 removable rock anchors installed in 'Simsima' Limestone to support a diaphragm wall for the Al-Quds Tower.

Permanent anchors in Hunter River, Western Australia - Technical adviser to SBMA licensee and specialist anchor contractor Menard Bachy Pty Ltd for the design, construction and testing of 287 permanent ground anchors (working loads (520-875kN) installed to support sheet pile quay walls. This was the first application of permanent SBMAs in Australia. The contract value for the anchor works was Aus\$6.5m.

Technical Editor – EN 1537 - Appointed Technical Editor for the European committee (CEN/TC288/WG14) responsible for the revision of the Ground Anchor Execution code EN1537:1999.

Camber Dock, Portsmouth Harbour, UK - Technical adviser and expert witness engaged by Portsmouth City Council to deliver a detailed forensic investigation and assessment of anchors suffering corrosion failures.

TECHNICAL DIRECTOR, SBMA LTD (2003 – 2009)

A5 Glyn Bends, North Wales, UK - Engaged as Lead Expert by Parsons Brinckerhoff on a £12m litigation case. Directed the work of a team that included consultants Tony Gee and Partners and delivered a detailed forensic investigation of rock anchor failures on the slopes constructed for the A5 cuttings.

MIT Management Building, Boston, USA - Technical adviser to SBMA licensee and specialist anchor contractor Moretrench Construction Company Inc. for the design, construction and testing of 220 temporary ground anchors (working loads 600kN) installed to support diaphragm walls.

UK Expert – Revision of the Ground Anchor Execution Code - Appointed UK expert for the committee CEN/TC288/WG14 responsible for the revision of the Ground Anchor Execution code EN1537:1999.

UK Expert – Revision of the Soil nail design code - Committee member (B526/4/Task Group 4) for the re-draft of BS8006-2: Soil nail design.

MANAGING DIRECTOR, GEOSERVE GLOBAL LTD, (2001 – 2003)

CIRIA Document (C637): Soil Nailing – Best Practice Guidance - Researching, drafting and presenting material used in CIRIA Report C637 (chapter 9: The Durability and Degradation of Soil Nails). Work carried out in collaboration with Ove Arup & Partners and Keller Ground Engineering Ltd.

INDEPENDENT INTERNATIONAL CONSULTANT (1998 – 2001)

Independent consultant to Transfield Obayashi Joint Venture for the implementation of 5200 permanent anchors in Melbourne mudstone under the River Yarra, in order to stabilize the floor of the 3.5km Burnley Tunnel that had failed to withstand hydrostatic pressures.

Independent consultant to property developer Hines Corporation (USA) for a problem relating to excessive displacements of a large diaphragm wall incorporating 1000 temporary ground anchors installed in silts and sands.

PROJECT MANAGER, RESIDENT/LEAD ENGINEER, BROWN & ROOT LTD, formerly Howard Humphreys & Partners (1989 – 1997)

Dr. Mothersille significantly contributed to several projects in the capacity as Project Manager, Resident Engineer and Lead Engineer. These projects included; Devonport Royal Dockyard (seismic design of structures), New Cross to Limeburner Lane Cable Tunnel (geotechnical and structural design), East Putney Station (platform and embankment stabilization works), Wimbledon to Pimlico cable tunnel (project management), Gatwick Airport (structural inspections and assessments), George Green Tunnel, Heathrow Express Link, A40 Western Circus (structural design using finite elements analysis), A55 North Wales Coast Road improvements scheme (design) and Blackburn Southern Bypass (extensive site investigation works).

Ph.D. RESEARCH, DEPARTMENT OF CIVIL & STRUCTURAL ENGINEERING, UNIVERSITY OF BRADFORD, UK (1985 – 1989)

Devon Mothersille carried out research into the dynamic performance of rock bolts and rock anchors subjected to close proximity blasting, under Professor G.S. Littlejohn. This involved close collaboration with industry since in addition to numerical and physical modelling in the laboratory; the major part of the work was carried out during a road tunnel construction using drill and blast techniques.