



Mrs H.E. Scholes (née Edmonds)
BSc MSc DIC CGeol FGS EurGeol
Senior Partner

Areas of expertise

Site investigation, geotechnical instrumentation, engineering geology, tunnelling, earth structures, foundations, retaining structures.

Experience with GCG

Since joining GCG in 1993, Mrs Scholes has been involved with a wide range of geotechnical projects including tunnelling projects, groundwater control schemes, embankment stability assessments and the evaluation and design of excavations. Her extensive experience in the design, implementation and interpretation of site investigations encompasses onshore and over water investigations (near shore, marine, alluvial and estuarine locations), including several for research purposes, incorporating high quality techniques for drilling and sampling and using state of the art methods for in situ testing. She has a keen interest in the appropriate use and specification of geotechnical instrumentation and the interpretation of geotechnical monitoring data.

Mrs Scholes has been involved in a number of projects providing advice on the effects of proposed developments in London on existing infrastructure, including existing operational tunnels and adjacent surface structures. She also has extensive experience of tunnelling work (soft ground and mixed ground conditions), for both cut and cover and bored tunnels, with bolted segmental, sprayed concrete and cast insitu linings and is particularly interested in the interaction between geological setting and tunnel behaviour. She has provided advice to a wide range of clients, including contractors, consultants and developers, with particular reference to the impact of geological and hydrogeological setting on the design and construction of new works and the identification of ground-related risks. This has included advice at all stages of projects, with projects including the Dublin Port tunnel and Crossrail, including production of the Geotechnical Baseline Reports for the Crossrail project, intended to apportion risk during construction.

During a secondment to Infracore JNP Ltd, part of London Underground Ltd, she provided strategic advice on the management of their earth structure assets and advised their tunnels team on the impact of outside parties' works on the operational railway. She has also instigated trials looking at innovative methods of stabilising earth structures and the use of long term monitoring to develop remedial solutions for embankments and cuttings.

She was appointed a Director (now Senior Partner) in 2008 and is the Senior Partner responsible for GCG's Quality, Environmental and Occupational Health and Safety management systems.

Areas worked

UK, Ireland, Russia, Qatar

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GEOTECHNICAL CONSULTING GROUP

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Previous experience

On graduation, Mrs Scholes joined Terresearch Ltd as an engineering geologist in their ground investigation division. Her work involved the planning and supervision of site investigations, both onshore and over water, as well as working in the soil testing laboratories, gaining experience in various aspects of laboratory and field testing. These contracts varied from small-scale investigations to large projects involving full desk studies and extensive fieldworks, with contract periods of up to six months. During this period, she was responsible for the provision of geotechnical advice to public authorities, privatised utility companies, contractors and consultants, primarily via the preparation of interpretative geotechnical reports on ground investigations which she supervised. Although based in the southeast of England, with much of the work being in Hampshire and Sussex, projects ranged from Derbyshire to Devon.

Education/Research

National General Certificate in Occupational Health and Safety (Distinction), 2010
MSc (Distinction), Imperial College, London, 1993
BSc in Geological Sciences, University of Leeds, 1990

Scholarships/Awards

Manby Prize from the Institution of Civil Engineers, 2007
Imperial College Soil Mechanics Prize, 1993

Professional Qualifications & Memberships

Chartered Geologist 2011 - present
European Geologist 2011 - present
Fellow of the Geological Society, 1994 - present

Service on Technical/Professional Bodies

Chair of the Engineering Group of the Geological Society 2012-2014
Vice-chair of the Engineering Group of the Geological Society 2010-2012
Member of the Editorial Advisory Panel for ICE Proceedings 'Geotechnical Engineering', 2008-2010
Member of Council of the Geological Society, 2003 – 2006
Committee Member of the Engineering Group of the Geological Society, 2000 - 2003
Publicity Officer for Ground Forum, 1999 - 2003
Member of the "Ground Engineering" Editorial Advisory Panel, 1999 - 2003