



Dr J.P.Love
MA DPhil CEng FICE
Senior Partner

Areas of expertise

Ground investigation, ground improvement, deep excavations, piling, retaining walls, earthworks, foundations, underpinning, drainage, subsidence, grouting, slope stability, embankments over soft soil, pipelines, reinforced soil, soil nailing, horizontal directional drilling, reservoirs, pavements, tree root damage.

Experience with GCG

Jerry Love joined GCG in 1988 and became a Director in 1993, then a Senior Partner when the company became a LLP in 2011. Dr Love's design work covers almost all aspects of geotechnical engineering, including the development of new specialist techniques as well as the implementation of traditional construction methods. His time is shared between site and the design office. Dr Love has provided design solutions for numerous construction foundation schemes, earth retaining structures, slopes and ground improvement systems, together with the acquisition of appropriate GI information and its proper interpretation.

Examples of landmark projects on which Dr Love has worked include GI interpretation and value engineering for the Jubilee Line Extension, Crossrail, the Royal Opera House Covent Garden, slope stability analyses for Wimbledon No 1 Court, and subsidence at the Palace of Westminster. He has also carried out earthworks analysis for Wembley National Stadium, Terminal 5 at Heathrow and designed and supervised a sensitive permeation grouting scheme at Waterloo International. Dr Love has a wide range of experience including the design of contiguous and secant pile retaining walls for deep excavations, jet grouting and permeation grouting schemes, remedial slope stability schemes employing soil nails, piled railway embankments in Holland, embankments over soft soil using stage construction, pile design in chalk containing solution features, jacked box underbridges, and design analysis for a deep pumping station in soft soil in Devon. Projects further afield have included a detailed assessment of ground improvement measures on the Highway 2000 in Jamaica, the stabilisation of reclaimed land in Kalimantan and a slope stability assessment for a landfill site in Croatia.

Dr Love has frequently been retained as an expert to assess mechanisms of failure and to design remedial works, and has given evidence in Court. Expert witness cases have included the examination of slope failures, piling failures, a burst water main, sheet piling adjacent to sensitive buildings, subsidence and heave failures, horizontal directional drilling, tunnelling settlement, swallow holes, a gas mains explosion, pavement failures, and two reservoir failures.

Areas worked

UK, Oman, Ireland, Hong Kong, Jamaica, Indonesia, Croatia, Netherlands, France.

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Previous experience

After graduation from Cambridge, Dr Love worked for Binnie and Partners. He was engaged principally on two major projects, firstly the construction of artificial islands in the Beaufort Sea employing reinforced soil techniques including a field trial, and then on a feasibility study for embankment construction for the Severn Tidal Barrage.

His research at Oxford University from 1981 to 1984 investigated the behaviour of reinforced soil, in particular the behaviour of geogrid reinforcement in granular and soft cohesive soils. The research was directed towards the design of roads over soft clay, and the concepts may be applied to the use of reinforced soil generally.

From 1984 to 1988 Dr Love worked for Ove Arup and Partners. As a member of Arup Geotechnics he was involved on a daily basis with all aspects of geotechnical work from ground investigation planning and supervision, to interpretation and selection of soil parameters, to design and supervision of foundation construction on site. Main projects included piled, raft and spread foundations for multi-storey buildings, often including deep basements in the London area. His work also included retaining wall design, embankment construction, the analysis of slope stability problems in over-consolidated clays, design of deep excavations in soft marine clay in Singapore, directional drilling, and the geotechnical implications of offshore disposal of nuclear waste. Dr Love also acted as the in-house specialist at Arup Geotechnics for reinforced earth construction and the use of geosynthetics, working on the design of reinforced soil structures in the UK, in Oman and the Far East, including embankments built over soft soil in China. Dr Love spent two extended periods on site as a Resident Engineer. The first was for a large building project in Hertfordshire involving spread foundations and construction of roads and drainage, and the second was during the under-ream piling and deep basement retaining wall construction for the National Gallery Extension, Trafalgar Square, London. In addition to these two extended periods on site, there were numerous shorter periods on site, mainly undertaking GI supervision, logging borehole samples and logging trial pits.

Education/Research

D.Phil, Oxford University, 1984

BA (Hons), Cambridge University, 1980 (and MA conferred in 1984)

Scholarships/Awards

Recipient of the Halcrow Prize 2004 for a published paper

Professional Qualifications & Memberships

Fellow of the Institution of Civil Engineers, 2009 - present

Member of the Institution of Civil Engineers, 1987 - present

UK RoGEP Adviser, 2011 - present

British Geotechnical Association (BGA)

International Geosynthetic Society (IGS)

Service on Technical/Professional Bodies

Member of Eurocode Evolution Group EG5 for Soil Nailing, 2013

Member of committee tasked with rewriting BS8006-2, the new UK code of practice on soil nailing, 2007-2011

Member of the Géotechnique Advisory Panel, 1997-2000

Member of Organising Committee for International Conference on Advances in Site Investigation Practice, ICE, 1994-1995

Member of Technical Committee for the production of a Code of Practice for Reinforced Soil, 1987

Co-author of the DoT Advice Note HA 68/94 "Design Methods for the Reinforcement of Highway Slopes by Reinforced Soil and Soil Nailing Techniques" and co-produced the software program *ReActiv*, 1994