



Dr A. Gasparre
MICE PhD DIC Dott. Ing.
Associate Director

Areas of expertise

Mechanical and geological soil characterisation, laboratory testing, small strain behaviour of stiff clays, basements, ground movements, deep and shallow foundations, slope stability.

Experience with GCG

Dr Gasparre joined GCG in January 2006, becoming an Associate Director in 2016. She has been working on a variety of projects involving assessment of ground movements associated with construction projects and their potential for damage on buildings and tunnels, pile and retaining wall design and slope stability analyses. She has conducted geotechnical and hydrogeological desk studies and interpretative reports for various projects in the UK and abroad. She has also worked on an award winning deep excavation project in Italy involving an international team of designers and consultants.

The work conducted during her PhD has allowed her to develop an expertise on sampling, soil characterisation, laboratory testing and advanced laboratory testing including the use of high resolution instrumentation. On the basis of her experience she has designed and supervised a number of site investigations and advanced laboratory testing programmes for large scale projects. She has also been involved in the derivation of soil parameters for advanced soil modelling in connection with the Crossrail project.

Dr Gasparre has been involved in off-shore related projects for which she was asked to characterise the site on the basis of field data and she designed the laboratory tests suitable for deriving parameters for the design of offshore foundations. She has also acted as a checker for the geotechnical design of the construction site for offshore jackets in Norway and Korea and has acted as Category III checker for a series of railway embankment redevelopments in London. She had been involved in a research project on erosion and softening of stiff clays due to swelling, for which she carried out laboratory tests with a large scale erosion rig and advanced triaxial tests.

She has been retained as an expert witness in cases related to ground characterisation, groundwater leakage and construction of basements.

Based on the findings of her PhD work, involving an extensive study on the properties of London Clay in correlation to its geological units, she provides CPD courses for industry and young researchers. The results of her study are widely used in industry and in research. She is also acting as reviewer of technical papers for international journals.

Areas worked

UK, Italy, Ukraine, Norway, Korea

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GEOTECHNICAL CONSULTING GROUP

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Previous experience

Dr Gasparre has been Visiting Researcher at Imperial College between 2006 and 2012.

Between March 2002 and December 2005 Dr Gasparre worked as Research Assistant in the Department of Soil Mechanics at Imperial College, where, after completing her PhD, she became responsible for the management of the soil mechanics laboratory. Throughout her time at Imperial College she carried out research studies and laboratory tutorials. She supervised several projects and dissertations of undergraduate and MSc students. Her laboratory experience also includes testing of sands and transitional soils. Based on her experience as a Research Assistant, Dr Gasparre has published a number of technical papers on advanced laboratory testing techniques at very small strains and on the behaviour of London Clay at large and small strains in correlation to its lithology.

In 2001 Dr Gasparre carried out an internship at GCG. During this time she was involved in the interpretation of the results of a parametric study on the interaction between parallel tunnels performed using ICFEP. This was part of a major project for the London Underground Engineering work (Infracore JNP).

Between November 1994 and April 2001 Dr Gasparre carried out her undergraduate studies in Civil Engineering at the Technical University of Bari, Italy, where she graduated with honours. For her dissertation thesis on "Creep in crushable sands" she spent nine months in the Geotechnical Engineering Research Centre of City University, London under the auspices of the Erasmus project sponsored by the European Union.

Education/Research

PhD and DIC, Imperial College, London, 2005.

Laurea in Civil Engineering, Technical University of Bari, Italy, 2001. Final mark 110/110 cum laude.

Diploma Liceo Classico D. Morea, Conversano, Bari, Italy, 1994. Final mark 60/60.

Scholarships/Awards

BGA Medal 2014, British Geotechnical Association

Geotechnical Research Medal 2007, Institution of Civil Engineers

Erasmus-Socrates (1999-2000) and Leonardo Projects (2001) sponsored by the European Union.

Five annual awards for best student in literature and classical studies between September 1989 and June 1994.

Professional Qualifications & Memberships

Chartered Member of the ICE, 2010 to present

Chartered Member of the Italian Institution of Civil Engineers, 2002 to present

Member of the BGA

Member of the ISO\TC101

Member of Geotechnical Engineering Editorial Advisory Panel

Service on Technical/Professional Bodies

Member of the ISSMGE Technical Committee 101

Member of the editorial panel of the ICE journal Geotechnical Engineering

Languages (other than English)

Italian