

ANTÓNIO VIANA DA FONSECA

Department of Civil Engineering
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Academic Qualification

Associate Professor of Civil Engineering
Full Professor Habilitation. since Dec 2008
DSc in Civil Engineering from University of Porto, 1996.
Master in Civil Engineering Structures by FEUP, 1988
Degree in Civil Engineering from FEUP, 1985

Professional titles

Geotechnical Specialist and Senior Member of the Portuguese Institution of Engineers (OE-P)

Management and Participation in Committees

Director of the Geotechnical Division of Civil Engineering Department of FEUP
Geotechnical Laboratory Director of the DEC FEUP (www.fe.up.pt/labgeo/)
Member of various national committees and international professional societies (GSP, ABMS, ISSMGE - Vice-Chairman TC-16/102 of "Ground Property Characterization by In-Situ Tests"), committees (ex. Scientific Committee of the Polish Academy of Science) and standards committees (CEN-CT156-IPQ).
President of the College of Geotechnical Specialists of Portuguese Association of Engineers.

Professional Activities

Responsible and/or consultant for 91 projects, including bridge foundations, embankments on soft soils, large excavations and tunnels (Portugal, Algeria, Brazil, Morocco, Mozambique, Poland and Spain). Coordinator of the 275 experimental processes in LabGeo-FEUP, with formal reports.

Scientific and Technical Activities and Publications

Coordination of several research programs, in the areas of interest: Experimental characterization and modeling of geomechanical behaviour of non-textbook soils. Management of sampling quality on residual soils and soft clayey soils. Seismic analysis and cyclic liquefaction, due to earthquake actions; indexation to seismic waves' velocities measurements as calibrated in laboratory tests. Monotonic and flow liquefaction in gold tailings using critical state soil mechanics concepts and seismic waves' velocities risk charts. Behaviour of foundations (footings and Bored, CFA and Driven Piles) and earth retaining structures in Residual Soils from Granite. Analysis of the behaviour of Large Diameter Piles Under Axial Loading. Static and dynamic properties characterization and modeling of stabilized soils for subgrade and foundation of tracks for high-speed railways

Supervision of 14 PhD thesis and of 41 MSc thesis.

Author or coauthor of 20 articles in international journals (ISI with referees) and 30 others in national magazines journals; 102 communications published in proceedings of international conferences (8 special lectures) and 41 in national conferences; 44 technical documents for workshops and courses.