

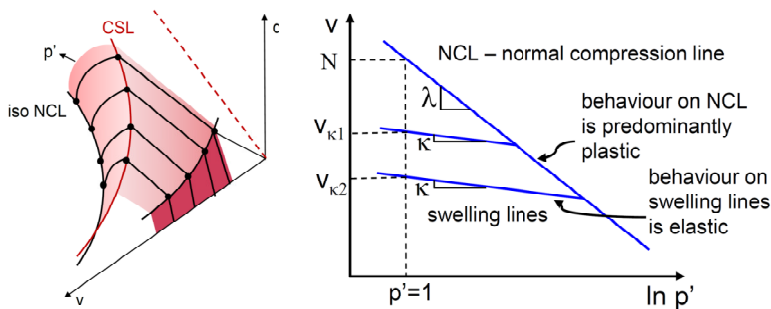
# VISITING LECTURES

Prof. dr Lidija Zdravković

Visiting Professor

Imperial College London

Department of Civil and Environmental Engineering



## Critical State Soil Mechanics

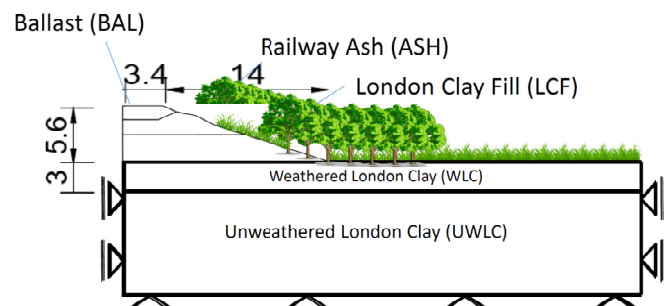
25.12.2023. 11<sup>00</sup>-14<sup>00</sup>

Room 141

## Past and present achievements and challenges in geotechnical engineering

26.12.2023. 12<sup>00</sup>-15<sup>00</sup>

Room 123



After graduating from the Faculty of Civil Engineering at the University of Belgrade in 1988, Prof. Zdravković worked for four years as an academic member of staff at the same Faculty and was involved in teaching, research and consulting work concerned with both structural and geotechnical engineering problems. She came to the Department of Civil Engineering at Imperial College in 1992 to undertake PhD studies into soil strength and stiffness anisotropy, utilising the large IC hollow cylinder apparatus.

Since obtaining her PhD in 1996, Prof. Zdravković has worked on the development and application of numerical methods in geotechnical engineering. This work involves the bespoke finite element code ICFEP and her particular input has been in the development of solution algorithms, constitutive models and boundary conditions for the analysis of unsaturated soils and soil dynamics problems, involving fully coupled hydro-mechanical soil behaviour. Her subsequent research interests have expanded to foundation systems for offshore wind turbines and modelling of temperature effects on soil behaviour, with application of the latter to nuclear waste disposal and exploration of geothermal energy. Prof. Zdravković has applied numerical tools in the analyses of a wide range of geotechnical problems, both in her research and in consulting activities, the latter involving major recent projects such as Crossrail, Shard of Glass, Heathrow Terminal 5, Rome metro etc.



Prof. Zdravković has written over 100 academic papers and has co-authored two books on finite element analysis in geotechnical engineering. She was a member of the Geotechnique Advisory Panel between 2003 and 2006, and has been an Editorial Board member for Computers and Geotechnics since 2010. She is also a UK representative and a core member of the Technical Committee 103 for numerical analysis, under the auspices of the ISSMGE and has served on the British Geotechnical Association (BGA) Executive Committee from 2010 to 2013. She delivered the Geotechnique lecture in 2013. She will deliver the Rankine lecture in 2024.