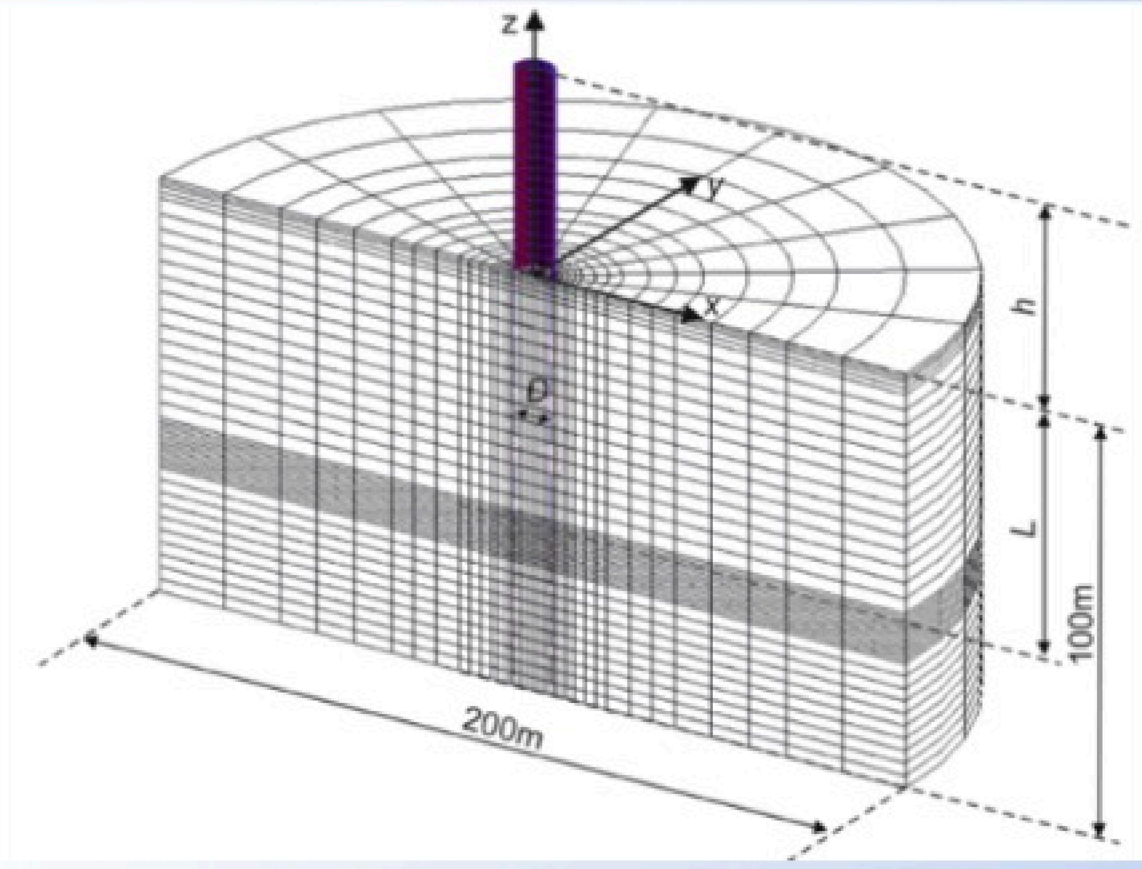
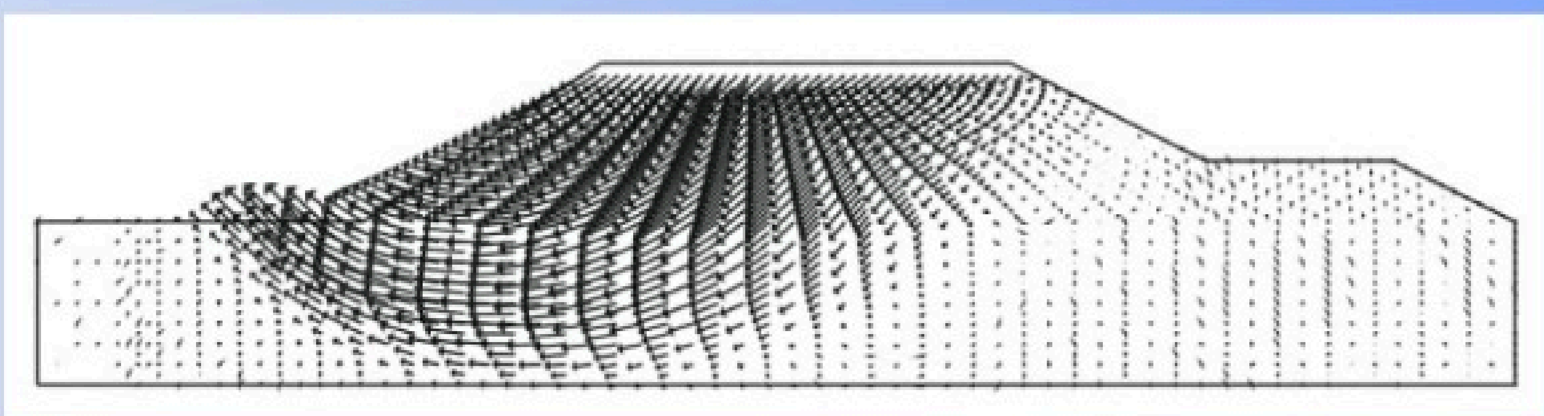
Geotechnical engineering for a sustainable society



Geotechnical engineering faces increasingly complex challenges. Industry and academia are developing tools for a safe, sustainable, and resilient society. This Special Lecture presents robust predictive methods for geotechnical design and lifecycle assessment, based on the integration of ground characterization, computational analysis, and field validation. Examples include extending the life of aging infrastructure under climate change, improving offshore wind turbine foundations for renewable energy, and assessing thermal and chemical effects on geotechnical systems.

Mercoledì **5 Novembre 2025**
ore **15:00**
Politecnico di Bari
Aula Magna "Domus Sapientiae"



Relatrice: **Prof. Lidija Zdravkovic - Imperial College of London, UK**

Lidija Zdravkovic is a professor at Imperial College London and leading expert in computational geomechanics. She earned her MEng Civil Engineering and MSc Geotechnical Engineering degrees at the University of Belgrade, where she worked as academic staff for four years before joining Imperial College in 1992 for a PhD study on experimental characterisation of strength and stiffness anisotropy in granular media. Her research focuses on developing and applying advanced finite element modelling to tackle complex geotechnical problems such as unsaturated soils, soil dynamics, nuclear waste disposal, renewable energy and infrastructure resilience. She has consulted on major industry projects such as Crossrail and Heathrow Terminal 5, publishes over 250 technical papers, coauthored two textbooks and server on technical committees of the British Geotechnical Association and ISSMGE. She is currently Editor-in-Chief of Géotechnique.

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