



CONFERENCIAS MAGISTRALES KEYNOTE LECTURE SPEAKERS



Dr. David Solans

Incorporación de investigación de campo y monitoreo en el modelamiento numérico de presas de jales mediante elementos finitos.

Incorporating site-specific ground investigation and monitoring in FE modelling of tailings dams.

After earning his BSc and MSc in Civil Engineering from the University of Chile in 2010, Dr Solans spend over a decade in the industry as a project engineer and geotechnical lead, focusing on soil characterization and advanced numerical modelling for earth dams, tailings dams, and underground structures. In 2016, he joined the Department of Civil Engineering at Imperial College London, where he completed a MSc in Soil Mechanics and Engineering Seismology, followed by a PhD in Computational Geomechanics in 2023. His research focused on the seismic performance of tailings dams using finite element method with advanced constitutive models.

From late 2022 to 2024, he served as a Teaching Fellow in Geotechnics at Imperial College London, delivering undergraduate and postgraduate modules in geotechnics. Currently, Dr Solans is Geotechnical Consultant in the Mine Waste group at WSP Chile, specializing in advanced numerical modelling of geotechnical infrastructure under static and seismic loading conditions, and site-specific characterization of tailings materials.

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