

WEBINAR TALK ON CHARACTERISATION OF HONG KONG MARINE CLAY AND IMPACTS ON RECLAMATION DESIGN: TUNG CHUNG EAST NEW TOWN CASE STUDY

SPEAKER:
ALESSANDRO MARTUCCI



28 JANUARY 2026, WEDNESDAY



3.00 PM - 5.00PM

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BEM Approved CPD: 2
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Registration Fees Student Members : Free
IEM Members : RM 15.00 IEM
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SYNOPSIS

This session focuses on the characterization of Hong Kong marine clay and its implications for reclamation design, illustrated through the Tung Chung East New Town project. Key findings on the properties of marine clay will be discussed, as these are critical considerations for planning and executing ground improvement works.

The case study highlights a range of ground improvement techniques and site trials implemented for the project, including trial embankments with prefabricated vertical drains (PVD) and surcharge, deep cement mixing (DCM), alternative improvement layouts, and rapid impact compaction (RIC) trials. Furthermore, the session will cover the innovative use of DCM to construct gravity walls for temporary works in box culvert excavations.

SPEAKER'S PROFILE

Alessandro Martucci is an Associate Geotechnical Director for Tony Gee and Partners with 15 years of professional experience. Alessandro's key expertise include advanced 2D and 3D finite element soil-structure interaction modeling, characterisation and treatment of soft soils, high-quality geotechnical investigations, and geotechnical instrumentation. His proficiency in these areas is a result of his extensive involvement in large scale reclamation projects such as the Artificial Island in Central Waters, HKIA 3rd Runway Reclamation, Hong Kong Boundary Crossing Facilities, and Integrated Waste Management Facilities Phase 1.