



Malaysian Geotechnical Society

Webinar – Talk On Controlled Modulus Column (CMC) for Embankment Construction

by Mr. Jerome Racinais

29th November 2022 (Tuesday) 4.00 p.m. to 6.00 p.m.

BEM Approved CPD Hours: 2 Ref. No.: IEM22/PP/125/T(w)
Qualified for 2 PDU's by PEB

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Synopsis

A wide range of ground improvement techniques has been developed for construction of embankments on soft soils. Controlled Modulus Column (CMC) is one technique of ground reinforcement, originally developed in France, for support of light structures such as highway and railway embankments. Controlled modulus columns are used to improve the soil characteristics of a compressible soil layer on a global scale and to reduce its compressibility by use of semi-rigid soil reinforcement columns. Unlike a piling solution which is designed to support the entire load of the structures on the piles, the objective of a CMC solution is to increase the stiffness of the soil mass to globally reduce both total and differential settlements by sharing the load of the structure between the soils and the CMCs. The improved soil mass thus behaves as a composite soil/cement ground improvement system with enhanced stiffness characteristics. This presentation presents some case histories of the application of CMC for embankment construction covering aspects like design considerations, construction related issues and performance monitoring.

About The Speaker



Mr. Jerome RACINAIS is a practicing geotechnical engineer, graduating in the multidisciplinary engineering institute ENSTA in Brest, France. He is the Vice-Chairman of the ISSMGE Technical Committee TC211 on Ground Improvement and Past Vice-President of the Technical Committee of the French Society of Soils Mechanics (CFMS). Since graduating in 2001, he has worked in the field of geotechnical engineering for the ground improvement specialist company Menard. As Engineering Director and Design Department Manager, he and his team provide technical support to the Menard agencies spread around the world. He is responsible for the development of new design approaches and internal software for ground improvement solutions. He maintains close partnership with universities and software companies to be at the forefront of 2D and 3D finite element modelling (FEM). He is also a visiting professor in a few French engineering schools (e.g., Centrale Paris, CHEC, ESITC Caen). During the last few years, he was involved in the French ASIRI national program and actively participated in the development of design procedures for rigid inclusions under slab-on-grades, footings and embankments.

Registration Fee:

MGS / IEM / GeoSS / CTGS Members: **FREE**

Non Members: **RM20.00 per person**



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- ✓ After the payment has been completed, please email the transaction receipt to mgs@mygeosociety.com.
- ✓ Each approved registrant will receive a unique Zoom link for the webinar.
- ✓ A minimum attendance of 75% is required in order to obtain a certificate of attendance.

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