



Malaysian Geotechnical Society

WEBINAR – TALK ON A NEW DESIGN MODEL FOR GEOGRID-STABILIZED AND REINFORCED WORKING PLATFORMS UNDER TRACKED PLANT

9 November 2021 (Tuesday)

5.00 pm – 7.00 pm

BEM Approved CPD Hours: 2 Ref. No.: BEM/REG/12Jld.8 (335)

Qualified for 2 PDU's by PEB

SPEAKER:
MR. JÖRG KLONPMAKER
BBG Bauberatung Geokunststoffe



SPEAKER'S PROFILE

Jörg Klompmaker is a German qualified civil engineer specializing in geosynthetic reinforced soil structures, pavement engineering and waste management design issues. Since 1996 Jörg has worked with the German geosynthetic manufacturer Lückenhaus Technical Textiles, where he was involved in the development of geosynthetic use in soil and asphalt reinforcement applications, mainly in North America and Asia.

In the year 2000 Jörg was employed by the German geosynthetic consultancy BBG Bauberatung Geokunststoffe (daughter company of geosynthetic manufacturer NAUE) where he worked as Senior Technical Consultant engaged in Road and Railway Engineering, Reinforced Earth Structures as well as Landfill and Hydraulic Engineering. Since 2005 Jörg works as the responsible product manager for NAUE's Stabilisation and Reinforcement product range Secugrid® & Combigrid®.

Jörg has either written or co-authored some 100 technical publications that have been presented at technical conferences and seminars throughout the world. Jörg is a member of a number of Technical Committees that include Technical Committee 210 – Dams and Embankments, International Society for Soil Mechanics and Foundation Engineering (ISSMGE), Working Committee AK 6.4 "Landfill Technology" – German Association for Geotechnics (DGGT), Technical Committee on Stabilization (TC-S), International Geosynthetic Society (IGS).

SYNOPSIS

Several studies have shown that the application of the majority of available models in practice to predict the punching shear resistance of working platforms may result in considerable overestimation of platform thickness (e.g., BR470 published by Building Research Establishment, UK) due to conservative simplifications in the development process of the design models. With this background, systematic large-scale laboratory tests were conducted to identify and overcome the shortcomings in the available design models with a particular focus on the popular BR470 design model.

The talk will present the results of the carried-out research work, which helped achieving an improved understanding of the parameters and processes affecting the behaviour of geogrid stabilised and reinforced working platforms under concentrated loads. Based on this gained improved knowledge, the available bearing capacity equation has been modified to account for the effect of a footing punching through a geosynthetic stabilised and reinforced granular platform material overlying a soft cohesive subgrade.

In addition, the data from the lab tests was further analysed to develop a simplified semi-empirical equation to predict the immediate deformation of working platforms subject to loads from semi-rigid tracks. The development of the new so called "Hybrid Model" was finally transferred into a user-friendly design software for geogrid stabilised and reinforced working platforms.

Ir. Dr. Dominic Ong Ek Leong
President
Malaysian Geotechnical Society

REGISTER



Registration Fee:

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

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

Scan event into calendar
[Click here to save into your calendar](#)

Payment Methods:

1) **Online Bank Transfer**

Payee: **Pertubuhan Geoteknikal Malaysia or Malaysian Geotechnical Society**

Registration Number: **PPM-028-10-14032013**

Bank Account No: **281-00-01231-6**

Bank Name: **Hong Leong Bank Berhad**

Bank Address: **No. 9 & 11, Jalan 52/2, PJ New Town, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia**

Swift Code: **HLBBMYKL**

2) <https://paypal.me/mygeosociety>

3) **Online Money Transfer Platforms** (such as Wise)

IMPORTANT

After the payment has been completed, please notify us and also provide the transaction receipt to mgs@mygeosociety.com.