



ANNOUNCEMENT

AGS (HK) Technical Seminar

Design with “T-Value Method”

by

Dr. Andrew Lees

- Date** : 23 September 2021
- Time** : 18:30 – 20:00 (Hong Kong Time)
- Venue** : The webinar will be conducted through Zoom.
Successful applicants will be provided a link to the seminar. Participants should arrange for their own device with a stable network environment to join the webinar.
- Enquiry** : For general enquiries, please contact
Haydn Chan (email: haydn.chan@arup.com)
- Seminar Fee** : Free of charge
- Registration** : <https://forms.gle/YXio6QmEG2kZhPvH9>
Please register by 20th September 2021. Successful applicants will receive webinar details on 21st September 2021. CPD certificate will be sent to the attendees after the webinar.
- Book Prize** : Book prize is open to youth professionals under 35 years old for the submission of a quality report (max. 500 words) on this event. Please refer to the AGS HK website for “The AGS Book Prize Reports – Assessment Framework” for details. The Book Prize reward comprises a book "Geology of Site Investigation Boreholes in Hong Kong" by Chris Fletcher and book coupons worth HK\$300 from Eslite Bookstore (誠品書店). Please send your report to haydn.chan@arup.com.



香港岩土及岩土環境工程專業協會
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Synopsis:

The design of working platforms typically involves the calculation of a two-layer bearing capacity. Existing calculation models are quite empirical with imprecise input parameters while other proposed methods have tended to involve multiple design charts and been suited to either strip or circular foundations only. It has also been difficult to incorporate the benefits of geogrid in an accurate way. The recently developed “T-Value Method” defines bearing capacity simply in terms of the shear strengths of the two layers and can be applied to both clay and sand subgrades. It also allows realistic incorporation of the benefit of multi-axial stabilising geogrid in terms of the enhanced shear strength of the upper granular layer. This is leading to significant cost savings due to thinner working platforms that are designed in a safe and scientifically rigorous way. The development of this new design method will be presented at this seminar together with the results of full-scale validation testing.

About the Speaker:

Dr. Andrew Lees CEng, MICE is senior application technology manager at Tensar International and is based in Cyprus. His primary roles at Tensar include global responsibility for finite element analysis (FEA) application and training as well as the development of new design methods to incorporate the benefits of mechanical stabilisation of aggregates in a scientifically rigorous way. He is also director of the geotechnical and satellite remote sensing company Geofem and a visiting research fellow at the University of Southampton. He has published extensively in the field of geotechnical engineering, including the popular geotechnical FEA guidebook from ICE Publishing. He is a chartered engineer and member of the Institution of Civil Engineers (UK), British Geotechnical Association and NAFEMS geotechnical working group.