



Malaysian Geotechnical Society

## WEBINAR— GROUND IMPROVEMENT WITH HEAVY TAMPING



**Speaker**

**Mr. Richard Ong**

*Regional Technical Director, Menard Asia*

**13 July 2023 (Thursday)**

**4.00—6.00 pm, via Zoom**

- BEM Approved CPD Hours: 2  
*Ref: BEM/REG/12 Jld. 10 (307)*
- Qualified for 2 PDUs by PEB
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### *Synopsis*

Heavy tamping is one of the oldest deep compaction techniques, but it only gained its popularity and widely adopted since late 1960s, thanks to Louis Menard who promoted this technique under the name of dynamic consolidation. The terms dynamic consolidation and dynamic compaction has been used interchangeably although it is usually recommended to use the term dynamic consolidation for improvement of saturated fine-grained soils whereas the term dynamic compaction applies for compaction of granular soils. When the high fines content in soils prevents the use of dynamic consolidation, the same equipment and concept of heavy tamping can be adopted to create granular columns in soft cohesive soils. This modified process is called dynamic replacement, which is a type of ground reinforcement methods. This presentation aims to present a full review of the technique to better understand how it works and determine the suitability of the method according to the soil conditions via a few case histories of projects where dynamic compaction and dynamic replacement have been used. One of the case histories presented is possibly the first dynamic compaction project carried out in Asia in 1977.

## Speaker's Profile

Mr. Richard ONG obtained his bachelor's degree in civil engineering from Universiti Teknologi Malaysia (UTM) in 2000. In 2002, he completed his master's degree in geotechnical engineering from Nanyang Technological University (NTU), Singapore. He has been working in the field of geotechnical engineering since graduation, particularly in the field of slope stability, reinforced soil structures, ground improvement and geosynthetics. Currently, he is the regional technical director for Menard Asia, as specialist ground improvement contractor. He oversees the design and construction of ground improvement projects of Menard such as vacuum consolidation, dynamic compaction, dynamic replacement, controlled modulus columns and stone columns in Southeast Asia. He is currently serving as a committee member for the Geotechnical Engineering Technical Division of Institution of Engineers, Malaysia.

### Registration Fee:

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