

Yorkshire Geotechnical Group

BGA Touring Lecture - Practical use of shear wave velocity measurements in clay with a focus on UK and Irish clays

Tuesday, 25th April 2023, 18.00 (for a 18:30 start) – 20:00
 Speaker: Dr. Mike Long, University College Dublin
 Venue: The Terrace, 3 Wellington Place, Leeds, LS1 4AP

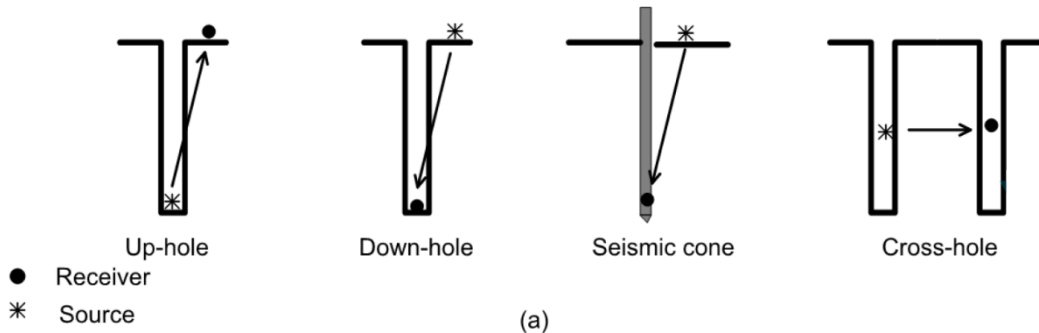
The YGG is proud to host the British Geotechnical Association's Touring Lecture for 2023:

ABSTRACT

The main objective of this event is to promote use of shear wave velocity (V_s) measurements as a compliment to standard CPTU, SPT and other in situ test data.

Recent developments techniques for measuring V_s , e.g. SCPTU and MASW are described. Correlations between V_s and CPTU data and also with a variety of soil properties can be very powerful. However these correlations should ideally be local and only applied to other soils and areas with great caution. An exception might be for correlation between V_s and pre-consolidation stress p_c . Use of V_s data to help assess sample disturbance and for the prediction of settlement of footings is described.

Some future outlooks including dealing with lateral variability and anisotropy are discussed.



Mike is a civil engineering graduate of University College Cork and subsequently University College Dublin. Having first spent 11 years or so in industry, mostly with ARUP, he has been a lecturer in geotechnics at UCD since 1996 and a visiting professor at NTNU, Trondheim, Norway.

His main research interests comprise the characterisation of natural soils and the behaviour of deep basements in urban areas.

This event is in person. Please register through the ICE website: TBC

At the request of the BGA, as it is part of a touring series, this event will not be live streamed.

Venue
 The Terrace
 3 Wellington Place
 Leeds
 LS1 4AP

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ice.org.uk/yorkshireandhumber