Keighley Association of Engineers (2016 syllabus)

FOUNDED 1900

A talk by John Rigby-Jones on Ground Stiffness Surveys

Date: Wednesday 8th June 2016
Start time: 7.30 p.m.
Location: Phoenix Service Solutions, Keighley.
(see *address details overleaf*)

Dear members and guests,

The Keighley Association of Engineers is pleased to announce its June event in the 2016 syllabus, an illustrated talk by **John Rigby-Jones - BEng(Hons) MSc EurIng CEng MICE - on Ground Stiffness Surveys**

Accurate and reliable knowledge of ground stiffness is key to the economical design of foundations to civil engineering structures. Ground stiffness has traditionally been measured either by crude field testing combined with questionable empirical relationships; laboratory testing of typically unrepresentative soil samples; or for the largest projects using expensive full scale load tests or complex and time consuming insitu measurement techniques.

Continuous Surface Wave (or CSW) stiffness profiling presents an attractive alternative to traditional practice providing accurate ground stiffness profiles rapidly and without the need for excavation or boring. Whilst the theory behind the technique is not new and it is widely used in other countries, it has until recently been largely unknown in the UK.

This talk aims to review the work which GSS has been undertaking to introduce the CSW technique into routine UK practice and will cover the following topics;

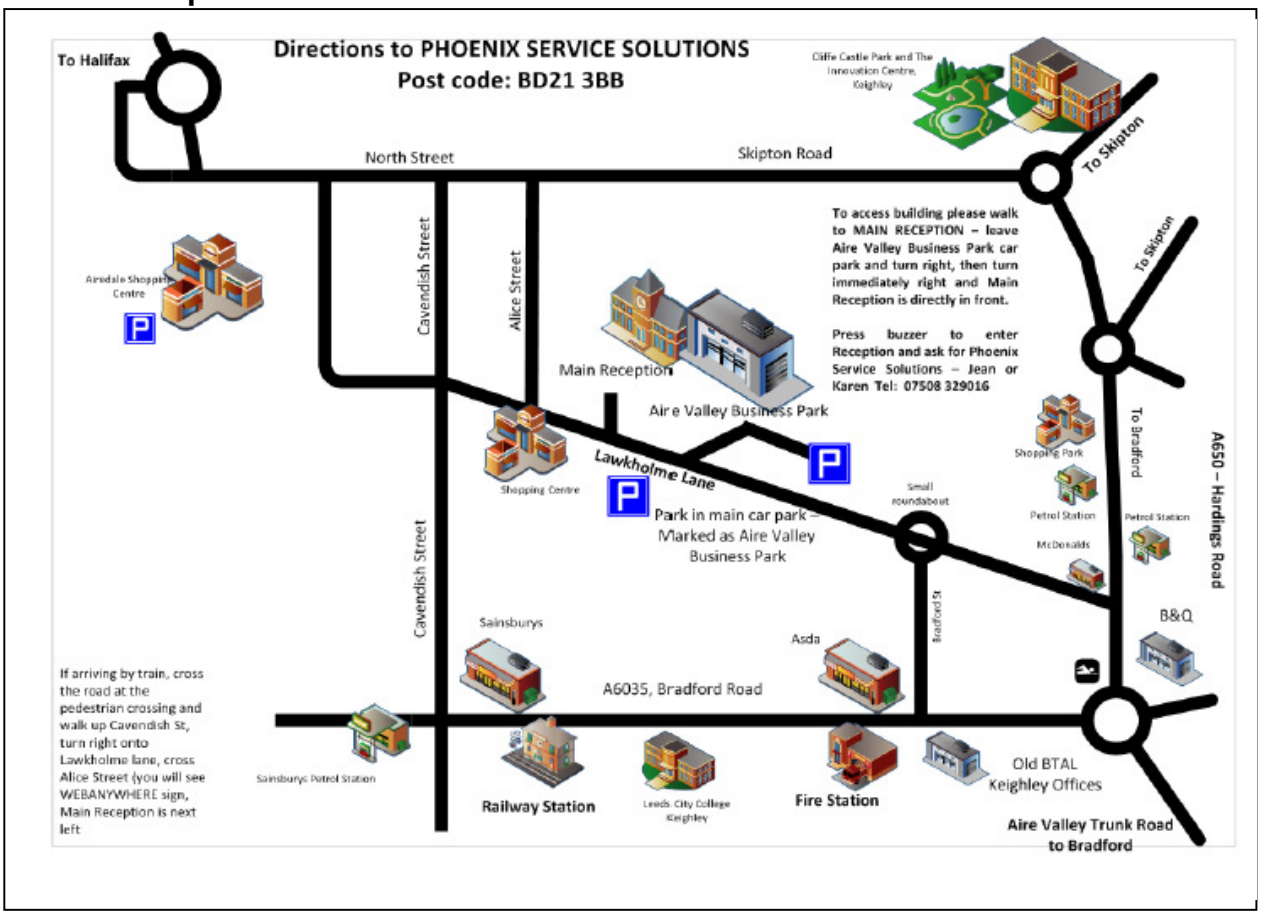
- The need for accurate ground stiffness measurement in Civil Engineering
- Current UK practice - the good and the bad
- CSW testing theory - how does it work (a simple explanation!)
- CSW equipment - the journey from text book to test site
- Recent GSS projects - New Forth Crossing and Crossrail

Prompt attendance for a 7.30 start is requested. We look forward to your company once again kindly hosted by Phoenix Service Solutions in Keighley.

Address details:

Phoenix Service Solutions
Cedar House
Aire Valley Business Centre,
Lawkholme Lane
Keighley
BD21 3BB

Location map:



Check out the Keighley Association of Engineers website for details of future events

at www.kaoe.org.uk - visit the site to keep up to date.

Please note our Face Book and Twitter links

Contributions to forthcoming site visits and lecture opportunities may be posted on the website. We look forward to your feedback and contributions.