



# BRITISH TUNNELLING SOCIETY

Thursday 19<sup>th</sup> January 2012 at 6.00pm

At The

INSTITUTION OF CIVIL ENGINEERS  
ONE GREAT GEORGE STREET, WESTMINSTER, LONDON SW1P 3AA

## TUNNELLING-INDUCED SETTLEMENTS IN LONDON CLAY – EFFECTS ON BUILDINGS AND INFRASTRUCTURE

**ROBERT MAIR** – Cambridge University  
**JAMIE STANDING** – Imperial College  
**KEITH BOWERS** – London Underground

Tunnelling-induced ground movements and their effects on buildings and infrastructure are of considerable importance for projects such as Crossrail and the proposed Thames Tunnel. The presentations will begin with an overview of the subject, and of the latest developments in research and practice. The important influence of a building's stiffness on its response and simplified methods of taking this into account for design will be described, drawing on a number of case histories and on recent research. Long term settlements can be significant, depending on tunnel lining permeability and the units of the London Clay in which the tunnels are located, and this will be illustrated by a number of case histories in which long term monitoring has been undertaken. The influence of tunnelling-induced ground movements on existing tunnels and infrastructure will also be discussed, along with long-term changes observed in various London tunnel structures.

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Tea and biscuits will be available at 5:30pm

**Advance booking not required**

In case of any query please contact; The Secretary, BTS Tel: 020 7665 2229

or e-mail: [bts@ice.org.uk](mailto:bts@ice.org.uk)

or visit: <http://www.britishtunnelling.org.uk>