

Tunnelling in London: learning lessons from Crossrail

A half day seminar at Imperial College

1:00 – 4:30 pm 18th March 2015, followed by Rankine lecture at 5:30pm

Chair:

Prof. Lidija Zdravković, Imperial College

Session 1		1:00 – 2:30
<i>Harnessing lessons learnt: Crossrail initiatives</i>	Mike Black Crossrail	1:00 – 1:25
<i>Crossrail Sprayed Concrete Lining Depressurisation at Stepney Green Caverns</i>	Andrew Davis Mott MacDonald, UK Emilio Linde OTB Engineering	1:30 – 1:55
<i>Developments in assessing tunnelling- related ground movements and damage</i>	David Harris DI Harris Geotechnics Ltd. Director. BFK. Chief Geotechnical Engineer on C300/C410/C435	2:00 – 2:25
Coffee break		2:30 – 3:00
Session 2		3:00 – 4:30
<i>Research into the behaviour of shafts: wall strains and ground movements</i>	Prof. Robert Mair University of Cambridge, UK	3:00 – 3:25
<i>Investigating the effects of tunnelling on existing tunnels: field & laboratory studies</i>	Dr. Jamie Standing Imperial College London, UK	3:30 – 3:55
<i>Investigating the effects of tunnelling on existing tunnels: numerical studies</i>	Prof. David Potts Imperial College London, UK	4:00 – 4:25

Major developments in the tunnelling industry have been achieved in recent years since the construction of the Jubilee Line Extension and Channel Tunnel Rail Link. Tunnelling and underground construction for Crossrail have provided another opportunity to improve our understanding and experience of the effects of these activities on the ground and the structures lying above and within it. Specific approaches are often necessary for the differing geology beneath London. Crossrail initiatives are seeking to make sure we optimise the lessons learnt from the design and construction processes. These will be described and examples given of lessons learnt from recent experiences on the Crossrail project. In the second session major research programmes run by Cambridge University and Imperial College are described along with some of the key findings. Time will be allowed during the sessions for discussion from the floor.

Venue:

Imperial College London, Department of Civil & Environmental Engineering
Skempton Building, London SW7 2BU

Main room:

LT 164 – ground floor, Skempton Building

Overflow room:

LT 201 – first floor, Skempton Building

All welcome, registration not required