



BRITISH TUNNELLING SOCIETY

Forthcoming Meetings

Date	Title	Speakers
17 June 10	<p>Atlantic Sea Tunnels in Norway In Norway, almost 30 sub sea road tunnels have been built since the Vardø tunnel was opened in 1983. In addition 8 sub sea tunnels have been built for the oil industry as shore approaches and pipeline tunnels, and another 8 for water supply and sewerage. All these tunnels are excavated entirely in bedrock by drilling and blasting relying on probe drilling and pre-grouting, and with drained rock support structures. The Bømlafjord tunnel is the longest at 7.9km. The Eikesund tunnel is the deepest at 287mbsl. These tunnels have successfully replaced many congested ferries on the stem roads and connected island communities to the mainland. In total, this represents no less than a new era in coastal communication and development. A record breaking 24km long sub sea road tunnel is at the planning stage.</p>	<p>Prof. Eivind Grøv - President Norwegian Tunnelling Society</p> <p>BTS Rapporteur – Damian McGirr</p>
16 Sept 10	<p>Tunnelling in Seattle - Past, Present and Future How tunnels have been used in Seattle and why they are now starting to push the envelope in American tunnelling. The talk will look in detail at recent projects, particularly Brightwater, and at the planned 58ft diameter bore for the Alaskan Way viaduct replacement tunnel. Brightwater is a \$2 billion new wastewater treatment system, which includes 14 miles of soft-ground bored tunnel. Currently under construction, the tunnels are being bored using 2 EPB and 2 slurry TBM's, and are notable for their long drives and high mining pressures.</p>	<p>Anthony Pooly – Jacobs, PM for Brightwater project</p> <p>BTS Rapporteur – Steve Woodrow</p>
<p>21 Oct 10</p> <p>All day event</p>	<p>Sir Alan Muir Wood Symposium - replacing the BTS meeting that day.</p> <p>Sir Alan Muir Wood, who died in 2009, was one of the most eminent Civil Engineers in recent times. He was a Fellow of the Royal Society, a Fellow of the Royal Academy of Engineering and a Past President of the Institution of Civil Engineers. He was a founder member of the British Tunnelling Society and the International Tunnelling Association.</p> <p>The British Tunnelling Society is holding a Symposium in his memory. The themes under discussion will be centred on Tunnelling, Coastal and Geotechnical Engineering with contributions on recent case histories of tunnelling and geotechnical interest, tunnel design, research advances in geotechnical engineering and the modelling of catastrophic coastal flooding.</p> <p><i>n.b. there will be no evening meeting on this date</i></p>	<p><i>Confirmed speakers;-.</i></p> <p>Prof Robert Mair Prof John Burland Prof David Muir Wood Robert Muir Wood Andy Alder Rodney Craig Prof Paul Jowitt Martin Knights John Sharp Colin Warren</p> <p>BTS Organisers – Helen Natrass + Bill Grose</p>

Date	Title	Speakers
18-Nov-10	<p>Pittsburgh Northshore Connector Light Rail Tunnels in mixed ground conditions with challenging vertical alignment.</p> <p>The tunnelling works for the North Shore Connector Project in Pittsburgh, USA, involved several engineering challenges. The construction included twin 6.5 m ID bored tunnels, 660m long, passing under the Allegheny River to connect downtown Pittsburgh to the PNC Baseball Stadium and the Heinz Field American Football Stadium.</p> <p>This presentation will describe the engineering challenges associated with the tunnelling works and the geotechnical ground improvements implemented to minimise settlement and provide additional structural support.</p>	<p>Stephen Woodrow + Andy Miller – Faber Maunsell (AECOM)</p> <p>BTS Rapporteur – John Scholey</p>
16-Dec-10	<p>Baggage Tunnel Design and Construction at Heathrow Airport</p> <p><i>Synopsis TBC</i></p>	<p>Andrew Stephenson – BAA Enrique Blanco – Ferrovial Arthur Darby – Mott MacDonald</p> <p>BTS Rapporteur – Andrew Hindmarch</p>

- Tea and biscuits will be available at 5.30pm
- Meetings will be held at the ICE unless otherwise stated
- Meetings will start at 6.00pm and finish at 7.30pm unless otherwise stated
- A licensed bar will be open after the meeting at the ICE
- A variety of foods will be served in the ICE Brasserie after each meeting
- Advance booking not required

This list may be subject to changes.

Details of each meeting will be sent to members with their monthly copies of T&TI. Should you have any query please contact the BTS Administrator at the Institution of Civil Engineers, One Great George St, London SW1P 3AA Tel 020 7665 2229 Fax 020 7799 1325 email bts@ice.org.uk Website: <http://www.britishtunnelling.org.uk>