



Midland Geotechnical Society Meeting Notice

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Contact Us

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Meeting Venue

Lectures start 7pm

University of Birmingham B15 2TT

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Refreshments are available prior to the meeting in the Shell lounge, Department of Mechanical and Civil Engineering, from 6:15 onwards.

Monday 9th January 2017

Metro Stations - Design and Construction of Cut and Cover Structures

Prof. Eric Wu, Jacobs

Synopsis

This presentation describes the design and construction of cut and cover structures, with particular references to the Singapore Downtown Line Stage 2 Rochor Station and Little India Station project, and the Victoria Station Upgrade project in London.

The presentation outlines various design considerations, including tunnelling methods, diaphragm wall, piling works, construction sequences and ground movement assessment.

By the end of the presentation, one would appreciate that metro station projects requires a multitude of ground engineering skills.

About Our Speaker

Professor Eric Wu is a Director of Operations at Jacobs, responsible for the Ground Engineering and Tunnelling business for Jacobs southern region, covering Croydon, London, Reading, Exeter, Bristol and Cardiff.

Eric is an Honorary Visiting Professor of School of Engineering, Cardiff University.

Eric obtained his BSc (Hon) from Cardiff University in 1984. He was then awarded a PhD studentship by Paisley College, University of West Scotland. His PhD thesis was "The modelling of anisotropic jointed rock slope by physical

and numerical methods”.

He began his career with James Williamson & Partners in Glasgow after his research, a firm well known by their design and supervision of the Dinorwig Hydroelectric Power Station in North Wales. James Williamson later became part of the Mott MacDonald Group.

Eric returned to Cardiff in 1991 joining Wallace Evans, later became Hyder Consulting. His 15 years with Hyder, has seen his career progressed from Project Engineer to Head of Geotechnics. During 1996 to 1998, he was seconded to Hyder's Hong Kong office, when he was involved in Hong Kong's MTR new metro extension. This was the first of a series of world class Metro Station projects to follow in his career.

In 2005 he was appointed by RPS as Director of Engineering responsible for a range of environmental engineering projects. By the end of 2005, Capita Symonds attracted Eric to take on the posts of Project Verification Director for the Dubai Metro project, as well as Head of Geotechnics for the company.

In 2007 Eric re-joined Mott MacDonald as Technical Director and later promoted to Divisional Director and Geotechnics Practice Leader for Mott MacDonald's Building and Infrastructures Business Unit.

Eric took up the post of Director of Operations with Jacobs in September last year.

Eric's tunnelling experiences have been gained through a portfolio of world class projects, including:

- Hong Kong Tseung Kung O Extension
- Dubai Metro
- Thessaloniki immersed tube tunnel in Greece
- Limerick Immersed tube tunnel
- London Underground's Cool the Tube
- Singapore Downtown Line 2
- London Victoria Station Upgrade
- Singapore Thompson East Coast Line
- Jakarta Metro
- Kula Lumpur Metro Line 2 Bid
- Shatin to Central Link Cross Harbour Tunnels Bid
- Melbourne Metro

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