



## CHINA HONG KONG RAILWAY INSTITUTION

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27<sup>th</sup> March 2012

### **April Function: Technical Talk on Dismantling of the Existing Overrun Tunnel at Sheung Wan for West Island Line**

**Date: Monday 16<sup>th</sup> April 2012**

**Time: 6:30 pm to 7:30 pm**

**Venue: Theatre, 2/F, Fo Tan Railway House**

The West Island Line (WIL) Project is a railway extension under construction to extend the existing Island Line service from Sheung Wan Station to Kennedy Town. One of the major challenges for the construction of WIL is the demolition of part of the existing overrun tunnel.

A specially designed Tunnel Dismantling Machine (TDM) has been developed for the demolition. The lining is dismantled under compressed air conditions using an excavator arm mounted on a rotating turret, the operation and piloting is carried out from the free air side of the TDM bulkhead. The segments are removed via a material lock. Once removed a temporary shotcrete lining is sprayed with the tunnel being backfilled. The talk will introduce the design development, features and operation of TDM.

Guest Speaker – Thomas Barrett, Senior Construction Engineer, MTR Corporation

Tom started working on construction sites labouring to pay his way through college and university where he studied Mechanical and Electrical Engineering followed by a Degree in Mining Engineering. Over the last thirteen years Tom has predominantly worked for the Contractor directly supervising construction works and where required parts of the design. Tom has worked on various tunnelling and heavy civil contracts such as The North London Cable Tunnel UK, Channel Tunnel Rail Link Contract 320 UK, SMART Project Malaysia, KDB Link 200 Hong Kong and the Kingscross Station Redevelopment UK. Recently Tom has worked for Design Consultants and the Client to gain a broader perspective of the industry. Tom is currently working on several technically challenging projects for MTRCL within Hong Kong both in the construction and design phases, namely WIL 703 Sai Ying Pun to Sheung Wan Tunnels, WIL715 PWay & OHL, Club Street Subway and Lee Tung Street Subway.

For registration, each participant has to confirm to CHKRI his/her name, employer and contact telephone number. You should also provide your membership number and grade at the same time when returning your application by **10<sup>th</sup> April 2012** to Ms. Anita Ip by Fax to 2947 7001 or by e-mail to "secretary@chkri.hk".

Anthony Tong  
Secretary, CHKRI

