



Dept. of Land Surveying &  
Geo-Informatics, HK PolyU



The Hong Kong Institution  
of Engineering Surveyors

## CPD – Application of Tunnel 3D Laser Scan Technology in Harbour Area Treatment Scheme Project

Organizers:	<b>The Hong Kong Institution of Engineering Surveyors (HKIES) Department of Land Surveying and Geo-Informatics (LSGI), PolyU</b>
Speakers:	<b>Mr. Kenny Ng Wai Keung</b> He is working as a Chief Surveyor of Gammon Construction Limited in HATS 2A. He has more than 30 years' experience in civil engineering surveying.  <b>Miss. Vicki Lau Kin Yi</b> She is working as an Assistant Land Surveyor of Gammon Construction Limited in HATS 2A. She graduated from Hong Kong Polytechnic University, BSc of Science in Geometric (Land Surveying).
Date and Time:	<b>19-04-2012 (Thursday) 19:00 – 20:30</b>
Venue:	The Hong Kong Polytechnic University, <b>Room BC215</b>
Medium:	Cantonese with PowerPoint
Admission:	Free of Charge

**Abstract:**

Laser Scanner had been used in the project of Harbour Area Treatment Scheme (HATS) Stage 2A. This project includes the construction of eight vertical shafts and three deep tunnels using drill and blast techniques, where the tunnels are totaling 12km in length and the shafts at 165m below ground.

The laser scanner had been used to survey the as-built record of shafts and tunnels, the results were used to compare with the theoretical profiles, to calculate the underbreak and overbreak areas during excavation. In this talk, the as-built profiles of shafts and tunnels using laser scanner and data processing by TMS Office will be described. There will be a discussion of the pros and cons of using laser scanner and TMS Office.



Please email the Reply Form below to [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk) or [hkiescpd@gmail.com](mailto:hkiescpd@gmail.com) for registration.

All members and guests are welcome and the number of participants is limited to 50. Participants will be accepted on a first come first served basis. For enquiries, please contact Mr. Simon, LAI Kai Kuen, (Tel: 852-9870-0868) or email to: [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk) or [hkiescpd@gmail.com](mailto:hkiescpd@gmail.com)

**Disclaimer:** The Organizers have not arranged any insurance coverage for any participants on any personal accident, property loss/damage or virus inflection arising from this CPD function. Participants should make their own insurance arrangement at their expenses.

### Reply Form

I, \_\_\_\_\_, confirm my intention to attend the CPD Function on 19 April 2012 (Thu). HKIES / LSGI Membership No. \_\_\_\_\_.

My telephone number is \_\_\_\_\_ and e-mail address is \_\_\_\_\_.

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