



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



## CPD-Application of Track Geometry Measurement in China's High-speed Railway Infrastructure Project

Organizers:	Department of Land Surveying and Geo-Informatics The Hong Kong Institution of Engineering Surveyors (HKIES)
Speakers:	Mr. Zhang Xiao Jiang and Mr. Yu Han Bo, They are General Manager and Deputy General Manager, Guangzhou South High-Speed Railway Solutions Co., Ltd. and Director and Vice Director Guangzhou South Precise Measurement Institution respectively. They started with South Group in 1994 and assigned to be in charge of HSR solution division since 2006 and have a few years' experience in track geometry measurement.
Date:	12-07-2012 (Thursday)
Time:	19:00 – 20:30
Venue:	The Hong Kong Polytechnic University, Room EF311
Medium:	Cantonese/Mandarin with PowerPoint
Admission:	Free of Charge

### Abstract:

China's HSR network has been developing quickly over the past few years, with an estimated combined length totaling 11,000 kilometers by the end of 2012 and topping the world's longest HSR network line. According to the large-scale plan from the State Council, within 10 years' time, the total length of operational railways in China will exceed 120,000 km, with newly built high-speed railways accounting for over 16,000 km, with railroads capable of accommodating trains with a traveling speed of 200 km per hour or beyond, and linking all its provincial cities nationwide. By 2020, this network will become the largest, fastest, and most comprehensive, advanced HSR system in the world, with more than 800 bullet trains running well on the way.

South Precise Track Geometry Measuring Trolley System (Model: SGJ-T-NF-1) plus relevant devices and software solutions has been widely applied and used in the massive public transit infrastructure projects in China and some other countries, e.g. Korea. Such applications include Track Measurement Inspection, Track Gauge Inspection, Track Super elevation Inspection, Relative Mileage Measurement, etc. In this talk, some projects which were remarked as tough cases would be described and the speakers would share their experience in the job. Furthermore, related monitoring solutions would be introduced as well.

### Presentation Contents:

1. Brief introduction to China's HSR recent developments
2. Precise Control Survey applications in HSR projects
3. Success Story of Precise Control Survey application in Beijing-Shanghai Line
4. Application example of South Precise Track Geometry Measuring Trolley System
5. Brief introduction to monitoring solutions



Please email this reply form to [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk) for registration.

All members and guests are welcome and the number of participants is limited to 60. Participants will be accepted on a first come first served basis. For enquiries, please contact **Mr. Edwin, Kwan King Ho**, (Tel: 852-9759-9462) or email to: [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk)

**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.

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I, \_\_\_\_\_, confirm my intention to attend the CPD Function on 12-July 2012 (Thur). HKIES/ LSGI Membership No. \_\_\_\_\_.

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

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