



香港聲學學會

Hong Kong Institute of Acoustics

**Railway Noise Control 2007 - Seminar 8:
High Speed Rail in China, Korea and Japan**

Speaker: Dr. CF Ng

Venue: Hong Kong Polytechnic University N001 (Opposite to Core P, G/F)

Time: 6:30-8:00 pm, Thursday, 29 November 2007 (Reception starts at 6:15pm)

Hong Kong and China mainland are going to build extensive system of high speed intercity rail. There are problems of high vibration transmission from the rail to the receivers and floating slab track may be used. However, floating slab may affect the safety of the high speed movement of the train on rail. The special design of the Maglev in Shanghai, TGV (French Design) in Korea and Bullet Train in Japan will be reviewed. Site measurement results of the vibration control performance of these designs will be presented. In addition, the special design of a hotel near Disneyland in Tokyo will be presented. The hotel is just underneath the rail viaduct and whole structure is suspended on a pendulum system to reduce the vibration transmission from rail.

Dr. Ng is the Associate Professor in the Dept. of Civil and Structural Engineering, HK Polytechnic University. He had made extensive site measurement and analysis of rail noise control design in Hong Kong, China Mainland, France, UK, Korea and Japan. He is nominated by the Industry Dept. of HK Government as the Member of the Draft Committee for ISO TC108/SC2/WG8 "Ground-borne Noise and Vibration from Rail Systems"

Railway Noise Control 2007 is jointly organized by HKIOA, HKIEIA and BSE and ME Dept of HKPolyU. The following seminars have been scheduled as shown below.

| Date | Speaker | Title | Venue |
|--------------------|---|---|------------------|
| 10/1/07 (Wed) | Dr Glenn Frommer, MTRC | Implementation of Acoustic Measures in EMU and Stations | FJ302 HKPolyU |
| 13/2/07 (Tue) | Barry Murray, Wilkinson Murray | Variations and Uncertainties of Rail Noise and Vibration | Y416 HKPolyU |
| 21/3/07 (Wed) | Prof Bill Barron, Civic Exchange | Role of Rail in Hong Kong's Sustainability | RHKYC |
| 18/4/07 (Wed) | Ir Joey Koo & Ir Edmond Chiu, KCRC | Permanent Way - the Challenges and Development | Y611 HKPolyU |
| 9/5/07 (Wed) | Ir Richard Kwan, KCRC | Managing Expectations - Noise from Ma On Shan Rail | Y303 HKPolyU |
| 11/7/07 (Wed) | Catherine Leung, MTRC | Evolution of Railway Noise Control | FJ302 HKPolyU |
| 18/9/07 (Tue) | Dr Trevor R. Smith Tiflex Limited | A Manufacturer's Overview on Attenuation of Railway Track Noise | FE305 HKPolyU |
| 29/11/07 (Thur) | Dr CF Ng HK PolyU, Civil & Struct. Eng. Dept. | High Speed Rail in China, Korea and Japan | N001 HKPolyU |
| 13/12/07 (Thur) | Alan Crockett Wilson, Crockett & Associates, Limited | Trackform Vibration Isolation – Myths and Legends Reviewed | TBA |

Registration:

The Seminar is free of charge to members of HKIOA and HKIEIA. Non-members will be charged at HK\$100 per head to cover administrative costs. For registration, please send a blank e-mail to: **reg12@wal.hk**. You may type HKIOA Membership No. at the title of the blank e-mail for our easy administration. Enquiries please send to the undersigned at: who@wal.hk.

Wilson Ho,
Chairman of Activities Sub-committee, HKIOA
9 November 2007