



香港聲學學會

Hong Kong Institute of Acoustics

Hong Kong Institute of Acoustics (HKIOA) is supporting The Hong Kong Institution of Engineers Environmental Division (HKIE EVD) in organizing the following technical seminar.

## Retractable Noise Barrier for Construction Noise Control

Speaker:	Mr. Wilson Ho, Wilson Acoustics Limited
Venue:	HKIE HQ, 9/F Island Beverley, No 1 Great George Street, Causeway Bay
Date & Time:	15 June 2015 (Monday), from 18:30 pm to 20:00pm
Registration Link:	<a href="http://ev.hkie.org.hk/en_it_events_inside_Upcoming.aspx?EventID=719&amp;&amp;TypeName=Events+%2f+Activitie">http://ev.hkie.org.hk/en_it_events_inside_Upcoming.aspx?EventID=719&amp;&amp;TypeName=Events+%2f+Activitie</a> 80 seats will be provided on a first-come first-served basis. Successful applicants will be notified by email. Attendance Certificate would be distributed upon completion of seminar.
Fee:	Free of charge for members of HKIOA, HKIE EVD and HKIEIA

### Programme Highlights:

Night works are normally required for infra-structure projects due to tight programme. In order to fulfill noise control regulation, construction activities at nighttime in urban area should be screened. In many cases, the preferred screen location would obstruct or slow down the daytime (7am to 7pm) construction works. Noise barriers to be erected after 7pm are good solution with the following design criteria:

1. Quiet and quick barrier erection without using Powered Mechanical Equipment (PME).
2. Strong structure for occasional strong gust.
3. Lightweight barrier panels provide good sound insulation properties.
4. Interface gap is sealed well.

SilentUP Noise Barrier is a retractable, modular and lightweight design that can be installed by people quietly without any machine. A 6m high and 4m wide specimen can be installed within 10 minutes by skilled workers. Wind Load Relieving Mechanism is incorporated to reduce occasional gust wind pressure on carbon-fiber structural poles. With magnetic auto-sealing, Insertion Loss of 23dB(A) was obtained in a qualification test in controlled environment and 17dB(A) on-site. Retractable noise barrier up to 7m high are used in various construction sites, including MTR SCL1103, SCL1112, DSD water pipes repair, road paving works, etc.

### Speaker

Wilson Ho has more than 20 years' experience as the construction noise specialist in major infra-structure projects, including KCRC DB320, DB350, KSL, MTR WIL, XRL, SIL, KTE, SCL, Harbour Area Treatment Scheme, Lai Chi Kok Transfer Scheme, HK West Drainage Tunnel, Central-Wanchai bypass, TMCLK Link, Liantang/Heung Yuen Wai BCP, etc. He established Wilson Acoustics Limited (WAL) in 2005 for consultancy and Acoustics Innovation Limited for product development.

**MK Cheung**

**Co-Chairman, Construction Noise Sub-Committee**