

# The Joint HKIOA & HKIA CPD Course

## Innovative Building Designs for Noise Mitigation

**Date:** 31 October 2012 (Wednesday) (Day 1)  
8 November 2012 (Thursday) (Day 2)

**Time:** 6:45 pm – 8:30 pm

**Venue:** HKIA Premises, 19/F, One Hysan Avenue,  
Causeway Bay, Hong Kong

**Language:** English

**Fee:** HK\$80 per session for HKIA Member/HKIOA Member  
HK\$180 per session for non-HKIA Member

**CPD Credit hours:** 1.5 hours per session

**General CPD event for BEAM Pro:** 1.5 hours per session



### Course Highlight:

Like other metropolitan cities, a large number of residents are affected by road traffic noise problem in Hong Kong. The government estimates that about 1.1 million people in Hong Kong are exposed daily at home to road traffic noise level exceeding 70dB(A)L10(1hr). No doubt, road traffic noise becomes the severe environmental noise problem in Hong Kong. To keep road traffic noise at bay, road traffic noise assessment with innovative building designs for noise mitigation is an important component in the process to prevent the problem through planning.

The Hong Kong Institute of Architects (HKIA) in association with the Hong Kong Institute of Acoustics (HKIOA) are proud to present this course which aims at providing the professionals with the acoustics, noise modeling concept, looking into the "Calculation of Road Traffic Noise" methodology, discuss and present with you some cases with innovative building designs for noise mitigation.

## Innovative Noise Mitigation Designs and Measures



## Day 1 Programme

### **Topic 1: Acoustics and Road Traffic Noise Modelling Concepts**

**Speakers:** Dr CW Law, C Eng, MHKIOA, MIMechE

**The presentation would include:**

- Sound characteristics;
- Noise Descriptors;
- Noise modeling;
- Why, When, Where, What and How to build a road traffic noise model;
- Rule of Thumb of road traffic noise modelling

### **Topic 2 : Case Study (Hostel In LingNan University)**

**Speaker :** Ms Grace Kwok, Director of Allied Environmental Consultants Limited

## Day 2 Programme

### **Topic 1: Calculation of Road Traffic Noise (CRTN) Methodology**

**Speakers :** Ir CK Lee, C Eng, MHKIOA, MHKIE, MIMechE

**The presentation would include:**

- The Hong Kong Planning Standard Guidelines Chapter 9 Section 4 Noise;
- Review of CRTN with sample calculation;
- Traffic noise modeling software

### **Topic 2 : Case Study (Proposed Public Housing Estate in San Po Kong)**

**Speaker :** Representative from Housing Department



## Biography of the speakers

**Dr Law Chi-wing** obtained both his BEng(Hons) in Mechanical Engineering and PhD from HKU. He has more than 15 years experience in engineering and various fields of environmental protection. Before joining the Government in 2002, he was the project manager and director of an established environmental and acoustical contracting company, having overseen more than 140 projects in South East Asia, including large scale infrastructure and architectural works, such as railway projects and media acoustic facilities. He is now working in the Assessment and Noise Group of Environmental Protection Department, focusing on noise planning and assessment. He is a Chartered Engineer, member of Institution of Mechanical Engineers in UK and Hong Kong Institute of Acoustics (HKIOA), international scientific committee member and structured session chairman of International Congress on Sound & Vibration in 2007 and 2008, and has published more than 30 technical articles in international conferences and journals. He has been responsible in organizing certificate courses in HKIOA since 2006.

**Ir Lee Chee Kwan** obtained his BSci(Hons) in Mechanical Engineering and MPhil from the University of Hong Kong, Master of Design Science(Computing) from the Faculty of Architecture, Design and Planning in the University of Sydney. He has more than 17 years experience in environmental noise assessment, modeling, planning and control experiences. He is senior officer in the Assessment and Noise Group of Environmental Protection Department and is responsible for noise assessment in relating to town planning applications, EIA studies, etc. He is the member of the Hong Kong Institute of Acoustics (HKIOA) and the Hong Kong Institution of Engineers. He has been the committee member of Mechanical, Marine, Naval Architecture & Chemical Division of HKIE since 2004. He has published more than 20 technical articles in international conferences and journals.

**Ms Grace Kwok** is the Director of Allied Environmental Consultants Ltd. With environmental engineering training background, she is experienced in environmental noise assessment and design of mitigation measures. She has been working as environmental consultant for 15 years and during which, involved in more than 100 development projects which require different kinds of noise assessment and mitigation design optimization. She often provides traffic noise assessment training to various groups, including Highways Department, and has taught in the Certificate Courses organized in HKIOA. She is a member of the Hong Kong Institute of Environmental Impact Assessment (HKIEIA) and Hong Kong Institute of Acoustics (HKIOA). She has served in the HKIOA Executive Committee since 2008 and is currently the Chairman of the Indoor Acoustics Sub-Committee.

