First announcement

The Hong Kong Institution of Engineers

Joint Structural Division

香港
鋼結構學會
Hong Kong Institute of Steel Construction

Department of Civil & Environmental Engineering
The Hong Kong Polytechnic University

ONE-DAY SEMINAR ON VIBRATION ASSESSMENT IN BUIDLING

Organized by
Hong Kong Institute of Steel Construction

Supported by
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University
Joint Structural Division, The Hong Kong Institution of Engineers

Date:	9 December 2013 (Monday)
Time:	9:00 am (registration) for 9:30 am to 5:00 pm
Venue:	Room PQ304, Hong Kong Polytechnic University, Hunghom, Kowloon, HK

Introduction

Building vibration induced by construction and operation of train is an international critical issue. This course aims to introduce the basic vibration concept and share the case studies on vibration assessment.

Objectives

After attending the seminar, participants will be able to:

1. Identify the mechanism and the factors affecting vibration transmission from the operation train or construction site to the building receiver.
2. Analyze field test data of building vibration due to piling and rail.
3. Distinguish the international and local building vibration criteria.
4. Recognize the mitigation measures for groundborne noise and vibration transmission.

Official Language

English will be the official language in the presentation. The notes of the seminar will be printed in English language.

Registration fees

Please make your reservation as soon as possible. The registration includes lecture notes, one-day CPD certificate and tea refreshment. Lunch is not included. The fees of the course are devised below:-

Programme	HKISC member	HKIE member	Others
One-day seminar	HK$ 900	HK$ 1,000	HK$ 1,200

Should you have further query, please do not hesitate to contact Mr. Sam CHAN at samchan@hkisc.org.

Programme

9 December 2013 (Monday)	
Time	**Programme**
9:00am	Registration
9:30am–10:30am	Minimizing vibration induced groundborne noise from railways - the MTR experience **Richard Kwan, Natalie Ip**
10:30am–10:45am	Tea refreshment
10:45am–12:15pm	Construction & rail vibration assessment. The international and local practice **Paul Kwong**
12:15pm–2:00pm	Lunch
2:00pm–3:15pm	The analysis of field test data of building vibration due to piling and rail. **Dr. C.F. Ng**
3:15pm–3:30pm	Tea refreshment
3:30pm–4:45pm	Computer modeling on building vibration **Dr. C.F. Ng**
4:45pm–5:00pm	Q & A
5:00pm	Collection of CPD certificates End of Seminar

Speaker's profile

Ir Richard Kwan *BSc , PEng, MHKIE, FHKIOA*

Environment Manager, MTR Corporation Ltd.

Mr. Kwan is responsible for the environmental elements of MTR's new railway lines. Currently he and his team are working on the West Island Line, Express Rail Link, South Island Line, Kwun Tong Line Extension, and the Shatin to Central Link. Mr. Kwan is a seasoned environmental professional whose career spans the spectrum of contractor, government and consultancy.

Natalie Ip

Senior Environmental Engineer, MTR Corporation Ltd.

Natalie Ip has substantial experience in environmental impact assessment and management of various new railway projects, including the West Rail, the Ma On Shan Rail, the Kowloon Southern Link. She is the Senior Environmental Engineer looking after all environmental matters related to the Hong Kong Section of the Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) and has been managing the groundborne noise issues related to the first high speed rail in Hong Kong.

Paul Kwong *BEng (Hons) MBA MIEAust CPEng MHKIOA MAAS BEAM Pro*

Associate, Mott MacDonald Hong Kong Ltd

Paul has over 19 years of consulting experience of wide range of acoustic and vibration related projects in Hong Kong, South East Asia, and Australia. His areas of expertise include architectural and building acoustic design for buildings and performing venues, environmental impact assessment and testing to identify and mitigate possible noise problems, design and assessment of vibration issue within buildings as well as fault detection and prognosis for rotating machines.

Dr. C.F. Ng *PhD , MHKIE, MIOA, MHKIOA*

Director, CF Ng & Associates Co. Ltd.

C.F. Ng has over 27 years of research, teaching & consulting experience in noise and vibration projects. He has extensive experience in the measurement of structural vibration. He has developed an analysis model for vibration and noise generated by various building structures. The model has been used in several projects in Hong Kong to optimize the design of structure with minimum vibration in collaboration with structural engineer. He has authored a book about vibration control and published more than 50 technical papers on vibration.

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REGISTRATION FORM

(To be received on or before 3 December 2013)

Please follow the 2-step registration procedure:

1. Fax the completed registration form to *Mr Sam CHAN* (Fax: 852-2334 6389) for preliminary registration.
2. Post the completed registration form within 7 days together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to *Mr Sam CHAN*, at the following address.

The Hong Kong Institute of Steel Construction
c/o Room ZS945, Department of Civil and Environmental Engineering,
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong
on or before 3 December 2013

To: Mr Sam CHAN **Fax: 852- 2334 6389**

Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel.	Fax	E-mail address	Institution/ Membership No.
1.						
2.						
3.						
4.						
5.						

Item	Total no. of registration	Sub-total
1. Special registration (HKISC Member 's price)	_____ person(s)	= HK$ _____
2. Special registration (HKIE Member's price)	_____ person(s)	= HK$ _____
3. Regular registration (Other's price)	_____ person(s)	= HK$ _____

Postal Address
(for official receipt): _____

I enclose a crossed cheque (no._____) with a sum of HK$ _____for the registration fee of the captioned seminar.

Signature: _____ Date: _____

CPD Certificate of Attendance *Please tick the appropriate box to indicate your choice:*

☐ Yes, I/ we would like to have CPD certificate(s). ☐ Not request for certificate(s).