

HALF-DAY SEMINAR ON STRUCTURAL APPROACH, VISUAL IDENTIFICATION/GRADING, PRESERVATION AND TESTING OF TIMBER

Organized by
Heritage Fire Safety Interest Group, Hong Kong Institute of Steel Construction
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

Supported by
Joint Structural Division, The Hong Kong Institution of Engineers
Hong Kong Institute of Architects
Hong Kong Institute of Surveyors

Date:	22 November 2013 (Friday afternoon)
Venue:	Room Y305, Hong Kong Polytechnic University, Hung Hom, Kowloon
Time :	1:45 pm (Registration) for 2:00 pm – 6:00pm

Scope and Objectives

Traditional heritage buildings are built of timber floors and timber roofs that rest on masonry brick walls. When there are adaptive re-use on timber floors leading to A&A works, their structural capacities should be justified. While the statistical assessment of the design characteristic bending strength of timber materials, it involves a large amount of test specimens, and the historic fabrics of the heritage buildings would be irreversibly disturbed and impaired. This is absolutely not the intent of preserving heritage buildings.

The seminar aims to brief the structural appraisal of timber structures, the timber strength assessment method via visual identification (specialist advice) and visual strength grading of timber species (BS 5268-2 and BS 4978 - softwood), thus obtaining the design strength of softwood species. In the seminar, the essentials of timber preservation would be introduced followed by genuine case studies on testing of timber.

Official Language and Registration fees

Bilingual (English and Chinese) languages will be the used in the presentation. The seminar notes will be given and a 3.5-hour CPD certificate will be issued to each participant at the end of the seminar. The registration fees are devised below. Please make your reservation as soon as possible.

Programme	HKISC member or a group of 5 participants	HKIA/HKIE/HKIS /HKICON member	Others
Half-day Workshop	HK\$ 500	HK\$ 600	HK\$ 800

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



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REGISTRATION FORM
(To be replied on or before 15 November 2013)

Please follow the 2-step registration procedure:

1. Fax the completed registration form to *Mr Sam CHAN* (Fax: 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 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

To: Mr Sam CHAN

Fax: 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 (HKIA/HKIE/HKIS/ HKICON 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). Certificate(s) not required.



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Time	Programme
1:45pm	Registration
2:00pm–2:45pm	Structural Design Approach of Timber Structures including structural testing by Ir Eric P W CHAN
2:45pm–3:30pm	Visual identification and visual strength grading of timber species by Ir Dr W T CHAN
3:30pm-3:45pm	Tea refreshment
3:45pm-4:30pm	Timber preservation by Mr Ken CHUNG
4:30pm-5:15pm	Case study on testing of timber by Ir William LOASBY
5:15pm-5:45pm	Q & A
5:45pm-6:00pm	Collection of CPD certificates End of Seminar

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Biographies of speakers

Ir Eric P.W. Chan graduated from the City University London and Imperial College in the UK and was a senior structural engineer of Architectural Services Department, Government of HKSAR prior to his retirement. He has over 35 years of experience in building structures in United Kingdom and in Hong Kong and is now an in-house structural consultant to Antiquities and Monuments Office, HKSAR Government.

He contributed a number of award winning headquarter buildings in UK with Ove Arup Partnership. For the past twenty years, his work in Hong Kong includes the infrastructure in Tung Chung new town, the Yuen Long Theatre, Tsing Yi Complex, Hong Kong Wetland Park and Visitor Centre and many other conservation projects such as Kom Tong Hall, Yau Ma Tei Theatre etc, Revitalization Scheme, Financial Assistant Scheme and other buildings in Private Partnership participation initiated by the Government of HKSAR.

Ir Dr W T CHAN, the convener of the Heritage Fire Safety Interest Group, HKISC, graduated from the Victoria University of Manchester (UK). He works in the Heritage Unit of the Buildings Department, formulating guidelines in handling structural and fire resisting construction matters arising from adaptive re-use of heritage buildings. Moreover, he serves as the Member of the Technical Committee on Adaptive re-use of and A&A works to Heritage Buildings in BD. He is promulgating fire engineering approach in heritage buildings. He specializes in welding and has great passions and efforts in promoting the use of steel materials, welding, glass façade works, cold-formed structural steel works, and the use of timber in heritage buildings. Dr. CHAN is a committee member of the Fire Division of HKIE. He is also the current Secretary to the Discipline Advisory Panel (Fire) of the Hong Kong Institution of Engineers (HKIE).

Mr. Ken CHUNG graduated from the University of Salford in 1989 and is now a Maintenance Surveyor in Architecture Services Department. He also completed a postgraduate Master's degree in Architectural Conservation in the University of Hong Kong in 2003. Over the past five year, he has been specializing in repair and restoration of historic buildings. The restoration projects he completed include the Chik Kwai Study Hall, a traditional Chinese vernacular architecture at Pak Heung, Yuen Long and the Woodside, a colonial style building at Quarry Bay in Hong Kong.

Ir William LOASBY, senior structural engineer at Ove Arup & Partners (Hong Kong), graduated from University of Oxford (UK) in 2003. After undergoing his professional training in the UK and Australia, he completed a postgraduate Master's degree in structural engineering at the University of Hong Kong, where he carried out research into tall concrete buildings. He has worked at Ove Arup & Partners in Hong Kong for the past five years, recently specialising in the conservation of heritage buildings and developing specialist experience in the structural assessment and in-situ testing of historical timber structures. Ir LOASBY was awarded the HKIE Innovation Award for Young Members 2013 for his research and application of structural engineering approaches to heritage conservation.