

HALF-DAY WORKSHOP ON VISUAL GRADING OF TIMBER MATERIALS

Organized by
Heritage Fire Safety Interest Group, Hong Kong Institute of Steel Construction

Supported by
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

Organizing Sponsor
Hsin Cheong Construction Company Limited

Date:	31 October 2012 (Wednesday afternoon)
Venue:	Room FJ301, Hong Kong Polytechnic University, Hung Hom, Kowloon
Time	1:45 pm (Registration) for 2:00 pm – 5:30pm (Workshop)

Scope and Objectives

While a heritage building undergoes adaptive re-use that involves change of use and A&A works, the building structure should conform to the current design standards. This usually creates great hardship when attempting to comply with current safety requirements, particularly structural stability, fire safety, barrier-free access for disabled and protective barrier aspects respectively.

Traditional heritage buildings are built of timber floor and timber roof that rest on masonry brick walls. When there are A&A works on timber floors, its structural capacity should be justified with design calculations and test results. To acquire the design characteristic strength of timber material by conducting destructive tests, it would involve 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.

British standards are adopted as the basis for timber design in Hong Kong. Design strengths of timber materials are either related to strength class or a particular timber grade and species. The technique of Visual Grading is utilized to identify the timber grade and the species. Once the timber grade and species are identified, the design strengths of timber materials can be acquired from Table 10 of the timber design code BS 5268-2; thus, the structural capacity of the timber floor can be assessed. Subsequently, the structural adequacy of timber floor would require to be verified with proof load test.

In this respect, the HKISC has great pleasure to invite Professor SUN Jin, a prominent expert from the South China Agriculture University in Guangzhou, to deliver a half-day workshop on Visual Grading of timber. The workshop covers not only the basic framework and methodology of Visual Grading, but also illustration of various timber species in Table 10 of BS 5268-2 as well as LIVE demonstration in identifying selected timber species.

In the past, test specimens were sent to renowned laboratory such as Timber Research And Development Association (TRADA) in UK for Visual Grading to identify the timber grade and species. Now that there are laboratories located in Guangzhou such as the South China Agriculture University that can carry out the same Visual Grading, it is comparatively more convenient and effective.

Official Language and Registration fees

Putonghua languages will be the official language in the presentation.

The workshop notes will be printed in Chinese and English languages.

The registration fees are devised below. Please make your reservation as soon as possible.

Programme	HKISC member	HKIA/HKIE/HKIS member	Others
Half-day Workshop	HK\$ 600	HK\$ 800	HK\$ 1,000

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



HALF-DAY WORKSHOP ON VISUAL GRADING OF TIMBER MATERIALS

REGISTRATION FORM *(To be replied on or before 24 October 2012)*

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:

Room TU712, Department of Civil and Environmental Engineering,
The Hong Kong Polytechnic University, Hungghom, Kowloon, Hong Kong, China.

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 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 Workshop.

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.

HALF-DAY WORKSHOP ON VISUAL GRADING OF TIMBER MATERIALS

31 October 2012 (Wednesday afternoon)

Time	Programme
1:45pm	Registration
2:00pm–3:40pm	Framework and Methodology of Visual Grading of timber materials Characteristics of Softwood and Hardwood Method to distinguish between GS and SS grade of timber materials to BS 4978 Method to identify timber species
3:40pm-4:00pm	Tea refreshment
4:00pm-4:45pm	Illustration of the various timber species in Table 10 of BS 5268-2
4:45pm-5:20pm	LIVE demonstration of visual grading of selected timber species Visual Grading service in SCAU
5:20pm-5:35pm	Q & A
5:35pm-5:45pm	Collection of CPD certificates, End of Workshop

Biodata of Speaker : Prof SUN Jin

(华南农业大学 孙瑾 博士)

基本情况：

孙瑾 女 华南农业大学林学院木材科学与工程系 副教授
 广东省质量监督木材及木制品检验站 副站长

学习经历：

1990-1994 年，于东北林业大学林产工业学院，攻读木材机械加工学士学位；
 1994-1997 年，于东北林业大学林产工业学院，攻读木材学硕士学位；
 1999-2003 年，于华南农业大学林学院，攻读植物学博士学位，博士论文是《中国樟科木材比较解剖研究》

工作经历：

1997 年至今，在华南农业大学林学院木材科学与工程系从事木材解剖、木材改性等方面的教学与科研工作；
 2004 年 3-9 月，在美国路易斯安那州立大学作访问学者，主要从事木材解剖研究工作；
 1997 年至今，在广东省质量监督木材及木制品检验站，一直从事木材树种鉴别的检验工作，特别是红木的树种鉴定工作。