

## HALF-DAY SEMINAR ON PROPER USE OF LOW HYDROGEN ELECTRODE AND APPLICATION OF VACUUM-PACKED ELECTRODE

Organized by  
Hong Kong Institute of Steel Construction  
Department of Civil and Environmental Engineering, Hong Kong Polytechnic University

Supported by  
Structural Division, The Hong Kong Institution of Engineers

Sponsored by  
Wo Lee Group (Holding) Co. Ltd.

Date:	25 May 2018 afternoon
Venue:	Room BC203, Hong Kong Polytechnic University, Hung Hom, Kowloon
Time	1:45 pm (registration) for 2:00 pm to 5:45 pm

### Scope and Objectives

In Hong Kong construction industry, welding is commonly adopted in fabrication of structural steel works; and manual metal arc welding is the most common type of welding used on site.

When welding thick plates or welding steel of higher grade, one must be very cautious about the failure in hydrogen embrittlement, or delayed hydrogen cracking. In order to mitigate the risk of hydrogen embrittlement, preheat requirements should be checked against the guideline stipulated in BS EN 1011-2. Having said that, experts always advise that the most effective assurance of mitigating hydrogen embrittlement is to ensure low hydrogen input to the weld through the use of low hydrogen welding electrode.

Normally, the use of low hydrogen welding electrode should be baked at 300° C for two hours before it can be used within the next four hours. Failure to do so will render the electrode no longer low in hydrogen.

Under the Buildings Ordinance, the RSE should ensure structural safety of built structures. In default of no-baking of this low hydrogen welding electrode by the contractor, the RSE may inadvertently be exposed to the risk of losing his professional liabilities.

The seminar is particularly devised for the RSEs and their technically competent persons (TCPs) to refresh and equip themselves with the advanced knowledge in the proper use of low hydrogen welding electrode so as to indemnify their professional liabilities.

The speaker of the seminar is Mr. Vinodh Kumar Babu, who is the Manager (NDT & Welding) of Fugro Technical Services Ltd., Hong Kong. Mr. Vinodh acquired his B.Eng (Hons) from Australia and has gained many international Certifications in NDT, Welding, Painting, Coating, Asset Integrity and QHSE Management Systems.

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### Official Language

English will be the official language medium of the workshop.

### Fees & Registration

Registration rates are devised, please make your reservation now.

Programme	HKISC	HKIE members and group registration of 5+	Non-member
	HK\$ 500	HK\$ 600	HK\$ 800

The registration includes a copy of the lecture notes, half-day CPD certificate and tea refreshments.

Should you have further query, please do not hesitate to contact Mr. Tommy LI at [man@hkisc.org](mailto:man@hkisc.org).

### Programme

Time	Programme
1:45 pm	Registration
2:00 pm	Indemnify professional liabilities of RSE and TCPs under the Buildings Ordinance
2:45 am	Preheat check to guidelines stipulated in BS EN 1011-2
3:30 pm	Tea Break
4:00 pm	Proper use of low hydrogen welding electrode
5:00 pm	Case Studies
5:30 pm	Q & A
5:45 pm	End



**Second announcement**

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**REGISTRATION FORM**  
**( To be replied on or before 21 May 2018 )**

Please follow the 2-step registration procedure:

1. Fax the completed registration form to *Mr Tommy LI* (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 Tommy LI* at:

Room ZS 972, Department of Civil and Environmental Engineering,  
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong

**on or before the deadline.**

**To: Mr Tommy LI**

**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. Regular registration (Member*price)	_____ person(s)	= HK\$ _____
2. Regular registration (Non-member 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).