

## HALF-DAY SEMINAR USE OF COLD-FORMED SHEET PILES

### Organized by

Jointing, Welding and Cold-Formed Steel Group, Hong Kong Institute of Steel Construction

### Supported by

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

### Organizing Sponsors

Oriental Sheet Piling (China) Co. Ltd

Date:	16 March 2012 (Friday afternoon)
Venue:	Room HJ305, Hong Kong Polytechnic University, Hungghom
Time:	1:30pm for registration ; 2:00pm to 6:00pm for Seminar

### Scope and Objectives

From material properties point of view, most engineers prefer using hot-rolled steel sheet piles to cold-formed steel sheet piles owing to misunderstandings that welding is restricted in cold-formed steel and excessive bending would cause significant reduction in ductility and notch toughness.

From structural engineering point of view, disparities arise in the assessment of the section modulus of sheet pile element as engineers may argue about its significant reduction which is associated with ineffective shear transfer at clippings of contiguous pile elements. This always ends up with a resolution by welding the pile elements at the clipping location, thus leading the engineers to use hot-rolled steel sheet piles.

As we all know, cold-formed steel are produced by cold rolling of hot rolled coil/strips to shapes and sections, and there are several means to permit welding in cold-formed zone as stipulated in the newly published Hong Kong Steel Code 2011.

This seminar not only depicts the production and quality assurance of cold-formed steel sheet piles to BS EN 10249, but also presents a rationale design approach to BS EN 1993-5 to overcome the dividing views on the section modulus assessment due to lack of shear transmission at the sheet pile clippings.

The seminar will be scheduled on 16 March 2012. Speakers will comprise local and overseas professionals. Engineers and designers in private sector, government authorities and contractors, who are working in construction industry, are most appropriate to participate.

Half-day CPD certificate will be issued to the participants. Please make your reservation at your convenience.

### Official Language

English will be the official language. Lecture notes and CPD certificate will be given to participants. The registration fees of the seminar are given as follows: -

Programme	HKISC and HKIE members	Others
Half-day Seminar	\$ 500	\$ 700

## **Biodata of Speakers**

### **Ir Dr Victor LI Kai Shun**

Director – Victor Li & Associates Ltd.

Dr. Victor Li is the Past Chairman of the Association of Geotechnical and Geo-environmental Specialist, Hong Kong, HKIE Geotechnical Division and HKIE Building Division. He is a member of the Technical Committee on Code of Practice for Foundations and also the Past Chairman of the Geotechnical Engineers Registration Committee. Dr. Li is active in promoting new technologies in geotechnical engineering and has issued over 200 publications in various fields of civil engineering.

### **Mr. Steven Zhao Jiang Wei**

[General Manager - Oriental Sheet Piling \(OSP-China\)](#)

Mr. Steven was graduated from TsingHua University in Beijing. He holds a Bachelor Degree major in Hydraulic & Hydropower Engineering Construction. After his graduation, he served as an Engineer with the Design & Research Institute of CSSC, and moved on to Arcelor International Shanghai as Technical Manager, before joining OSP in 2007.

As an engineer by profession, Steven has worked in the design and steel sheet piles solutions for over 20 years and has built a strong track record throughout his employment career. He has involved extensively in sheet piling application design such as harbors, shipyards, quays, wharves, water treatments, etc in China. In addition, he was also part of the design team for 1st Phase Tuas Mega Shipyard project in Singapore which consumed over 30,000Mton of steel sheet piles.

His zeal and untiring efforts to improve design and engineering solutions did not go unnoticed. In 2002, he was awarded the Second Price in Excellent Engineering Design Prize (for Shan Hai Guan Shipyard project) by China Ministry of Communications.

### **Mr. Goh Kian Sin**

[Managing Director - Oriental Sheet Piling \(OSP\)](#)

Mr. Goh is the Managing Director of OSP. Being the founder of the Group, he has more than 20 years experience and knowledge in the steel industry, particularly in Steel Foundation Solutions.

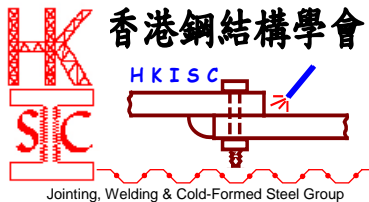
Throughout his career, he has accumulated invaluable skills and inspired others with his integrity, dedication, and readiness to confront new challenges.

Amongst other things, he took a bold move to be one of the first manufacturers of Heavy Gauge Cold Formed sheet piles in Asia. Mr. Goh's visionary approach and keen business acumen certainly augur well for the Group especially in its business direction and has made cold formed sheet piles a widely acceptable product around the world.

He is qualified as a Certified Public Accountant from Australia. He holds a Bachelor of Business Degree from The University of Southern Queensland (Australia) and a Master Degree in Business Administration from The University of Hull (Australia).

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

Hong Kong Institute of Steel Construction



**HALF-DAY TRAINING**  
**USE OF COLD-FORMED SHEET PILES**  
**REGISTRATION FORM**  
***(To be replied on or before 9 March 2012)***

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 Hong Kong Institute of Steel Construction  
c/o Room TU743, Department of Civil and Structural Engineering,  
The Hong Kong Polytechnic University, Hungghom, Kowloon, Hong Kong, China.

**on or before the deadline.**

**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.						

Postal Address  
(for official receipt):

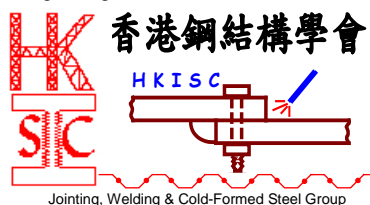
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I enclose a crossed cheque (no. \_\_\_\_\_) with a sum of HK\$ \_\_\_\_\_ for the registration fee of the captioned Seminar.

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).



**HALF-DAY SEMINAR**  
**USE OF COLD-FORMED SHEET PILES**

<b>Seminar programme on 16.03.2012 (Friday pm)</b>	
<b>Time</b>	<b>Programme</b>
1:30-1:55pm	Registration
1:55-2:00pm	Welcome Speech <i>Ir Prof S L Chan – President of HKISC</i>
2:00-3:00pm	Design of U-type sheet piles for cofferdams – behaviour of interlocked sheet piles with respect to possible slippage at clippings <i>Ir Dr Victor Li</i>
3:00-4:00pm	Various applications and design consideration of cold formed sheet pile <i>Mr Steven Zhao</i>
4:00-4:30pm	<b>Tea break</b>
4:30-5:30pm	Production of cold-formed sheet pile and its advantage <i>Mr Goh Kian Sin</i>
5:30-5:55pm	Q&A forum
5:55-6:00pm	Concluding remarks & distribution of CPD certificates