



First Announcement



International Symposium Design and Application of High Performance Steel in Construction

Organized by

The Hong Kong Institute of Steel Construction

Sponsored by

Arcelor International Hong Kong, Ove Arup & Partners (Hong Kong) Limited &
Hong Kong Ying Fat Welding Equipment Company Limited

Supported by

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

Friday, 24th February 2006

SCOPE AND OBJECTIVES

In the advent of science and technology, advanced materials emerge from time to time; and amongst them, the High Performance Steel (i.e. with yield strength ranging from 460 MPa to 690 MPa) has been extensively and successfully used for decades on the other side of the world such as Australia.

Their applications can easily be identified in areas whereby the weight of structural elements is required as optimal. Such materials are not only renowned for its very high yield strength, but also on its toughness properties, sufficient ductility with elongation of over 15 %, and lastly the weldability. These are the four basic pre-requisites for the structural use of steel materials.

Very often, architects would like to design peculiar tension structures with slim and slender profiles; and in some occasions, conventional steels are unable to achieve their objectives. Further, such high performance steel can significantly increase the design capacity, thus reducing the amount of steel to be used. The above are only some of many applications quoted.

Meanwhile, the Symposium is tailor-made for building professionals such as the architects and engineers to furnish them with the successful application and quality assurance of these materials and the possible promulgation in Hong Kong and in the region such our Mainland China. It comprises prominent speakers from Australia, Japan, Europe and local academics and professionals to share their design and working experience in the use of such material. Being excited and encouraged by their success, our local professionals are ready to establish respective networks for the confident use by the end users.

Such steel materials are commonly available in plate form and built-up sections can always be fabricated using submerged arc welding with confidence. Hence, the design, fabrication and quality assurance would be mature enough and the thrust is attributed to the professionals in promoting the use of such material before the material agents place order for the delivery of these materials.

It is hoped that professionals would benefit most from this Symposium by broadening the horizon of the basic knowledge. It is also anticipated that the local market would be more open-minded in lining up with the cutting edge technology in the application of such materials in our construction industry.

SPEAKERS

Ir Prof S L Chan, The Hong Kong Polytechnic University

Prof B Uy, University of Wollongong, Australia

Ir Dr W.T. Chan, Buildings Department, HKSAR Government
Rep. from Ove Arup and Partners Hong Kong Limited

Ir Dr B Young, The University of Hong Kong
Mr G Axmann, Arcelor International Hong Kong

Mr. Y Takayama, Hong Kong Ying Fat Welding Equipment Co. Ltd

Mr S K Babu, Foundation Techniques Ltd.

DETAILS

Date & Time

24th February 2006, Friday, 8:30 am (registration) for 9:00 am – 5:45 pm

Venue

Rm 1603, Senate Room, Li Ka Shing Tower, The Hong Kong Polytechnic University, Hung Hom, Kowloon.

CPD Certificate

This seminar is recommended for **1-CPD DAY**. An attendance certificate will be issued upon request.

Registration:

HKD\$600* for each HKISC or HKIE (Materials Division) member

HKD\$ 800* for each non-HKISC or non-HKIE (Materials Division) member

Group Registration:

HKD\$ 550* each for group registration of at least **5** people.

Please send the completed registration form with registration fee to **THE HONG KONG INSTITUTE OF STEEL CONSTRUCTION**, c/o *Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon* by **11th February 2006** (Tel: 2766 6070; Fax No.: 2334 6389) or through email: ceyvonne@polyu.edu.hk. For technical enquiries, please contact Ir Dr W T CHAN at 9674 9991.

You can download this form on HKISC's website (<http://www.hkisc.org>).



Reply Form

To be faxed to 2334 6389 by
Monday, 11th February 2006

International Symposium
Design and Application of High Performance Steel in Construction
Friday, 24th February 2006

To: Secretariat, The Hong Kong Institute of Steel Construction **Fax:** 2334 6389

A. Personal details:

Name (in full)	Company Name	Tel. & Fax	Email

Communication Address: _____

B. Registration Details:

Item	Registration Fee	Total No. of Registration	Sub-total
1. Regular Registration*	HKD \$ 800		
2. Member Registration*	HKD \$ 600		
3. Group Registration*	HKD \$ 550		
Total Amount :			HKD \$ _____

Notes:

* Registration will include seminar proceedings, CPD certificates and tea refreshments.

I enclose a crossed cheque (cheque no.) _____ for the sum of HKD \$ _____
for the registration fee of the captioned seminar.

Signature: _____ Date: _____

CPD Certificates of Attendance

Please tick the appropriate box to indicate your choice:

Yes, I would like to have a CPD certificate. No, I would not want to have a CPD certificate.



One Day Symposium

Organized by

The Hong Kong Institute of Steel Construction

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Arcelor International Hong Kong; Ove Arup & Partners (Hong Kong) Limited

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Department of Civil and Structural Engineering, The Hong Kong Polytechnic University

Design and Application of High Performance Steel in Construction ***24th February 2006 (Friday)***

Abstract

This symposium is aimed for promulgating the latest worldwide technology in the use and fabrication of high strength steel in structural engineering.

Symposium Program

Time	Program
8:30 am	Registration
9:00pm	Opening speech by Ir Paul T C PANG, Chief Structural Engineer, Buildings Department
Session 1 : Steel materials & Successful Application	
9:15am	<u>Talk 1</u> Successful applications of High Strength Steel in Australia and Design using High Strength Steel : Prof Brian UY
10:30 am	Coffee Break
11:00 am	<u>Talk 2</u> Availability of High Strength Steel materials at source worldwide & Welding Procedures of High Strength Steel : Mr. Georges AXMANN
12:15 pm	Q & A
12:30 pm	Lunch
Session 2 : Design Methodology & Quality Assurance	
2:00pm	<u>Paper 1 :</u> Design of pre-tensioned glass wall structures : Prof S L CHAN
2:30 pm	<u>Paper 2</u> High strength structural steel at elevated temperatures: Prof Ben YOUNG
3:00 pm	<u>Paper 3</u> Design of High Strength Steel : Ir Dr W T CHAN
3:30 pm	Coffee Break
3:50 pm	<u>Paper 4</u> Use of High Strength Steel : Rep from OAP
4:20 pm	<u>Paper 5</u> Use of Welding Consumables for High Strength Steel : Mr. Y TAKAYAMA
4:50 pm	<u>Paper 6</u> Quality Assurance of High Strength Steel in Hong Kong : Mr S K BABU
5:20 pm	Q & A
5:35 pm	Closing remarks: Ir Francis M K TONG, Chief Structural Engineer, Architectural Services Department