



The Hong Kong Institution of Engineers  
Joint Structural Division



香港  
鋼結構學會  
Hong Kong Institute of  
Steel Construction



**First announcement**

## **Half-day workshop on Quality Control of Tempered Glass**

Organized by  
Façade 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 (To be confirmed)

Date	:	4 October 2013 (Friday afternoon)
Venue	:	Room R602, The Hong Kong Polytechnic University,
Time	:	1:45 pm (registration) for 2:00 pm to 5:45 pm

### **Scope and Objective**

Breakage of tempered glass may be attributed to three primary causes, i.e. design fault, bad workmanship and spontaneous breakage respectively. Amongst these causes, the nickel sulphide (NiS) spontaneous breakage is reckoned as the most commonest cause that is directly related to the quality assurance and control during the course of manufacturing tempered glass.

In the advent of a series of incidents on glass breakage, the control on the tempered glass is substantively tightened. As stipulated in the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers (PNAP) APP-37 on Curtain Wall, Window and Window Wall Systems, the following documents are required to be submitted: -

- Quality Assurance Scheme by the glass manufacturer prior to the consent application of the glass works;
- Quality Supervision Plan by the RSE prior to the consent application of the glass works;
- Heat Soak Process Compliance Report by the RSE prior to the application of an occupation permit; and
- Quality Supervision Report by the RSE prior to the application of an occupation permit.

The workshop is tailor-made as a top-up workshop for the quality control supervisors as required under the PNAP APP-37. They are Technically Competent Persons of grade T3 (under the RSE stream) and of grade T1 (under the RC stream) working in the glass façade field. The DO and DON'TS will be deliberated so as to enhance the effectiveness and efficiency when carrying out quality control on tempered glass.

The documents and tests that need to be prepared and carried out by the manufacturer in the quality assurance would be cited. The techniques of calibrating the heat soak oven, the proper installation of the thermocouples on the glass surface and the rationale of installing an independent data logger by the TCP-T1 would be mentioned in great detail.

Language: Cantonese supplement with English terminologies. Handouts will be distributed in English.

### **Speaker**

The HKISC invites **Ir Dr. Dominic YU**, a Corporate Member of the HKIE as well as an expert in the structural design and use of glass, to deliver the workshop. **Ir Dr. YU** is now working at Alpha Consulting Limited, responsible for designing and supervising a number of curtain walls, window walls and glass balustrade projects.

### **Registration**

Please send the completed registration form to Mr Sam CHAN, Secretary of the Institute of Steel Construction, c/o Room ZS945, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon by 27 September 2013 (Fax No.: 2334 6389) or through email: samchan@hkisc.org.

## Programme

<b>Time</b>	<b>Programme</b>
1:45 pm	Registration
2:00 pm – 3:30 pm	Rationale of PNAP APP-37 – Curtain Wall, Window and Window Wall Systems  Framework of Quality Supervision Plan  15 minute Q & A
3:30 pm – 4:00 pm	Break
4:00 pm – 5:30pm	DOs and DON'Ts in the Quality Control of Tempered Glass  Case Studies  Q & A
5:30pm - 5:45 pm	Collection of CPD certificates; End of workshop



The Hong Kong Institution of Engineers  
Joint Structural Division



**REGISTRATION FORM**  
**(To be replied on or before 27 September 2013)**

**Half-day workshop on**  
**Quality Control of Tempered Glass**

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 ZS945, Department of Civil and Environmental Engineering,  
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong

**on or before 27 September 2013**

**To: Mr Sam CHAN**

**Fax: 2334 6389**

Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel.	Fax	E-mail address	HKISC/HKIE Membership No. (if any)
1.						
2.						
3.						
4.						
5.						

Postal Address:

\_\_\_\_\_

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).

**Registration fees**

HKISC member	HKIE member, RC and their TCPs	Others
HK\$ 600	HK\$ 800	HK\$ 1000