

Technical Seminar on
Wind Design of Steel Structures

By *Ir. Dr. Neptune Yu*

Organized by
Young Members Group, The Hong Kong Institute of Steel Construction

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

Date:	26 May 2015 (Tuesday)
Venue:	Room Y304, The Hong Kong Polytechnic University, Hung Hom, Kowloon
Time:	6:20 pm (registration) for 6:30 pm to 8:00 pm

About the Seminar

Wind design of steel structures needs more attention than reinforced concrete structures, because steel structures are lighter, more flexible and therefore more wind sensitive. Wind design of steel structures are in general more complicated as the steel structures have more diversified geometry configurations and building types.

The seminar will talk about several points that the wind design of steel structure shall be noted, including estimation of aerodynamic coefficients of various building types, watch-out for wind induced vibration problems, equivalent static wind loads of spatial structures, mitigation methods for wind induced vibration control, and fatigue issues.

Projects will be discussed to demonstrate the desktop code based wind load estimation for large steel structures, the influential surface method for deriving equivalent static loads in spatial structures, and the large scale wind tunnel test for porous steel facade.

About the Speaker

Ir. Dr. Neptune Yu is a wind specialist of ARUP supporting wind design works in the East Asia region. He joined the company after obtaining his PhD in the University of Manchester, UK. Neptune is experienced in code based designs using international standards, wind-induced vibration analysis of high-rise and large span structures, wind tunnel testing and management, Computation Fluid Dynamics for supplementing structural design and computational design optimization under wind loadings. Since joining the company, he has conducted wind design works for more than 20 projects, including the 400m+ Guangzhou East Tower, Tianjin CTF Centre, Shenzhen CRC, Dalian Olympia 66, and the Suzhou Cultural Centre. Neptune is also involved in drafting the new Hong Kong Wind Code.

Official Language English will be the official language.

CPD Certificates This seminar is recommended for **1.5** CPD hours. An attendance certificate will be issued.

Free attendance but places are limited and priority will be given to Young Members Group (HKISC) members. Please complete the **Online registration form** by **12:00 noon, 23rd May 2015.**

If you cannot use the hyperlink, please try the following address:

(https://docs.google.com/forms/d/1guDTu7WIzbAyu-5uhhdefNRQxx3GLVU7SD592mqOFBQ/viewform?usp=send_form)

For more information, please contact Dr. Alfred Fong at 2268-3322 or alfred.fong@arup.com.