

3 hour Technical Seminar

Organized by

The Hong Kong Institute of Steel Construction

Sponsored by

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

Automatic Wind Load Determination by Nida-wind

by

Prof. Dr. YP Liu

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Abstract

New wind code “Code of practice on Wind Effects in Hong Kong 2019” has been launched for practical design in Hong Kong. This seminar is about the use and development of software Nida-wind for efficient, accurate and reliable use of the wind code. The practicality of Nida-wind is ensured by work with the team of Ir CK Lau at SHK Architects and Engineers Ltd. It utilizes high speed and large capacity computing technology to efficiently apply the wind code for reliable design, especially for effective consideration of direct sheltering effect due to surrounding buildings which is very tedious and time consuming by manual or spread sheet calculation with much greater risk of human manipulation errors.

About the speaker

Professor Dr. YP Liu obtained BSc and MEng from Sun Yat-Sen University and his PhD at HK PolyU. He is currently a guest professor at Southwest Jiaotong University and Shenyang Jianzhu University in Mainland since 2018. He was involved in drafting of steel design codes in Mainland GB50017 (2017) and sits in the ad hoc committee in Hong Kong Steel Code. Dr. Liu publishes more than 100 publications in second-order direct analysis, nonlinear finite element and computational methods and acts as the principal developer of software Nida for practical analysis and design by second-order direct analysis and its theoretical development. In addition to research in steel, composite and seismic and wind engineering and position as Associate editor of the SCI-e Journal “Advanced Steel Construction” and the Journal “Progress in Steel Building Structures”, Dr. Liu acquires extensive practical experience in steel structure design which includes the second-order direct analysis and design of the world longest steel roof in MGM resort in Macau, which is reported in a paper “Design and construction of long-span single-layer dome structures by direct analysis”, HKIE Transactions, 25:1, pp. 29-43, 2018. He was also involved the design of many steel structures such as footbridge and transmission towers in Hong Kong and overseas.

Date: 11th November 2021, Thursday
Time: 1:30 pm for 2:00 pm – 5:00 pm
Venue: Room Z205, The Hong Kong Polytechnic University, Hung Hom, Kowloon.
CPD: This seminar is recommended for 3 CPD hours
Certificate: An attendance certificate will be issued upon request.

Places are limited. Please send the completed registration form to **Mr. Sam Chan, Secretary of the Institute of Steel Construction, c/o Room ZS972, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon** by **12:00 noon, 9 November 2021**. (Fax No.: 2334 6389) or through email: samchan@hkisc.org. For more technical information, please contact Prof. S.L. Chan at 2766-6047 or ceslchan@polyu.edu.hk.

REGISTRATION FORM

(To be replied on or before 9 November 2021)

Please follow the 2 steps registration procedure:

1. Fax or email the completed registration form to Mr. Sam Chan (Email: samchan@hkisc.org, Fax: 852-2334 6389) for preliminary registration.
2. Post the completed registration form together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to Mr. Sam Chan, at:
**HKISC c/o Room ZS972, Department of Civil and Environmental Engineering,
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong**
3. Registration fee can also be paid by ATM or bank in to HKISC bank account at Hang Seng Bank. Our **Hang Seng Bank** account number is **222-049918-001** and account name is "Hong Kong Institute of Steel Construction Limited". Please email the ATM transfer advice or deposit form to samchan@hkisc.org for record after transferred.
4. This seminar is free for all full-time students at local universities at ZOOM.

To: Mr. Sam Chan

Fax: 852- 2334 6389

- Face-to-face mode is offered with limited seats and will be provided as first-come-first-served basis. Organiser reserves right to change all attendants to "on-line mode only" in event of health or other contingency requirements.
- Link for On-line mode will be sent to applicants before seminar date upon successful registrations.
- CPD certificates will be delivered with indication on mode of attendance and other information related to the course. Attendance will be recorded by QR code distributed to attendants during lecture.
- Please indicate the following.
(please note the "only face-to-face mode" option below implies cancellation in case of the selected mode unavailable)
I/We take (please tick one square below) :
- only ZOOM mode
- only face-to-face mode
- prefer face-to-face mode but accept ZOOM mode if required

A. Personal Details:

| Title | Name in full (Block Letter) | Name of company | Tel. | E-mail address | Institution/ Membership No. |
|---|-----------------------------|-----------------|------|----------------|--------------------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| Postal Address (for official receipt): | | | | | |

B. Registration Details:

| Item | Registration Fee | Total no. of registration | Sub-total |
|---|------------------|---------------------------|--------------|
| 1. Regular registration (Member*price) | HK\$ 600 each x | _____ person(s) | = HK\$ _____ |
| 2. Regular registration (Non-member*price) | HK\$ 700 each x | _____ person(s) | = HK\$ _____ |
| 3. Group registration (at least <u>5</u> people) | HK\$ 600 each x | _____ person(s) | = HK\$ _____ |
| Total amount: | | | HK\$ |

Note: The registration fee includes e-copy of lecture notes and CPD certificate

*Member refers to HKIE or HKISC member

I enclosed a crossed cheque (cheque no. _____) with the sum of HK\$ _____ 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/ we would like to have CPD certificate(s). Not requested for certificate(s).

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