2nd Announcement

One-Day Technical Seminar

Resilient design of road bridges and footbridges for collisions, extreme temperatures, earthquakes and vibrations

Organized by

The Hong Kong Institute of Steel Construction (www.hkisc.org)

Supported by

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

Structural Division, The Hong Kong Institution of Engineers

Sponsored by

Nida Technology Co. Ltd., Hong Kong Science Park

Date:	**10th July 2026, Friday**
Time:	**8:45 am (registration) for 9:00 am – 4:30 pm**
Venue:	**Room Y302,** The Hong Kong Polytechnic University, Hung Hom, Kowloon
CPD:	This seminar is recommended for 6 CPD hours
Certificate:	An attendance certificate will be issued upon request.

Scope and Objectives

This one-day seminar brings together experienced academic and industry professionals to address the challenge of assessing the performance of road bridges and footbridges in withstanding vehicular collision, extreme temperature, earthquakes and vibrations. Existing prescriptive clauses in design codes of practice are of limited utility when confronting changes in conditions of the traffic and weather pattern (amid climate change). Participants will gain practical insights into related complex behaviour which is poorly understood by most design engineers, and is not within the scope of coverage by most university coursework degree programs. With contributions from experts who shaped local practice and led international research, the short course is designed to equip practicing engineers with the latest knowledge, real-world case studies, and practical solutions to enhance safety, resilience, and serviceability in the engineering of bridges for a sustainable future.

About the speakers (names in alphabetical order)

Professor Francis Au is Consultant, Binnies Hong Kong Limited, and Honorary Professor and formerly Head, Department of Civil Engineering at the University of Hong Kong. His experience spans both the industry and academia. He had conducted research on the seismic design and rating of bridges in Hong Kong, the effects of extreme temperatures on bridges, etc. He principally authored the guidebook: *Design and Assessment of Bridges in Regions of Low to Moderate Seismicity – The Hong Kong Context*, which was published by the Construction Industry Council.

Professor Nelson Lam is full professor and Head of *Structures & Buildings* at the University of Melbourne where he spent the past 36 years engaging in research into impact and earthquake actions. He co-authored textbook titled: *Collision Actions on Structures* by CRC Press of Taylor & Francis. His research findings on bridges are published in the *ASCE Journal of Bridge Engineering* and *ASCE Journal of Structural Engineering*. His early career was with the bridges section at Scott Wilson International in the 1980's prior to him commencing his career at University of Melbourne.

Prof. Yao-Peng Liu is currently a full professor at South China University of Technology. His research focuses on the Direct Analysis Method for steel and composite structures, long-span structures and flexible barriers. Prof. Liu leads the development of the NIDA software series and acquires extensive practical experience in the design of steel structures. He serves as Associate Editor of *Advanced Steel Construction*.

THE HONG KONG INSTITUTION OF ENGINEERS 香港工程師學會
Structural Division 結構分部

香港鋼結構學會 Hong Kong Institute of Steel Construction

Department of Civil and Environmental Engineering 土木及環境工程學系

Programme - 10th July 2026, Friday

Time	Topics	Speakers
8:45 am	Registration	
9:00 am	Vehicular collision on a bridge pier	Prof. Nelson Lam
10:30 am	Tea Break	
10:40 am	Vehicular collision on the bridge deck	Prof. Nelson Lam
11:55 pm	Lunch	
1:10 pm	Thermal and seismic actions on bridges	Prof. Francis Au
3:10 pm	Tea Break	
3:20 pm	Human-induced vibration on footbridges and floor slabs	Prof. Yao-Peng Liu
4:20 pm	Q & A	
4:30 pm	End	

REGISTRATION FORM

(To be replied on or before 2nd Jul 2026)

Please follow the 2 steps registration procedure:

1. Email the completed registration form to Cat Lam (Email: cat@hkisc.org & c.c. cat.lam@nidacse.com & samchan@hkisc.org) for preliminary registration.
2. Post the completed registration form together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to Cat Lam, at:
   HKISC c/o Unit 209B, Photonics Centre, No. 2 Science Park East Avenue, Hong Kong Science Park, Shatin, NT., Hong Kong.

   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 slip to cat@hkisc.org & c.c : cat.lam@nidacse.com & samchan@hkisc.org for record after transferred.

Seats are limited and will be provided on a first-come-first-served basis. Please send the completed registration form to **Miss Cat Lam, Secretary of the Institute of Steel Construction** by **2 Jul 2026**. For more technical information, please contact Miss Cat Lam at 3595 6150 or cat@hkisc.org & cc : cat.lam@nidacse.com

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$ 900 each x	_____ person(s)	= HK$ _____
2. Regular registration (Non-member*price)	HK$ 1,000 each x	_____ person(s)	= HK$ _____
3. Group registration (at least **5** people)	HK$ 900 each x	_____ person(s)	= HK$ _____
		Total amount:	**HK$**

***Note**: The registration fee includes e-copy of lecture notes, CPD certificate, lunch and two tea breaks*
**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).

The Hong Kong Institution of Steel Construction Limited HKISC is a non-profit making organization certified by qualified accountant yearly and it serves to disseminate latest technology in construction.