

JOINT SYMPOSIUM 2019/20  28 OCTOBER 2020

Innovations for Smart Performance Buildings in Hong Kong & Greater Bay Area

On-line

CONFERENCE THEMES

This symposium is an annual event intended to bring together international and local speakers to foster all aspects of advances in building design and building services engineering. Sub-themes of the symposium include:

INNOVATIONS IN GREEN
BUILDING DESIGN AND
CONSTRUCTION TECHNOLOGIES
FOR ENHANCING USER EXPERIENCE

WHO SHOULD ATTEND

Engineers, architects, designers, researchers, academics, property developers, professionals and practitioners involved in the wide range of disciplines associated with building design and building services engineering. Official language of the Symposium is English.

FEES (PER PERSON)

Standard

HK\$ 600 (USD 76)

Full time students

HK\$ 100 (USD 12)

REGISTRATION

Please register online via: <https://forms.gle/MxwYjQXkSyGw63118> and make the cheque payable to "ASHRAE Hong Kong Chapter" and send it to "P.O. Box 35612, King's Road Post Office, North Point, Hong Kong" (Attn: Mr. Joe Chow).

At the back of the cheque, please kindly state "JS2019, Name of your organization, Contact person and Contact tel. number".

No refund may be made but substitute delegate is allowed.

Receipt will be issued to the contact person when cheque is received. Enquiry email: hkjs20th2019@gmail.com.

Successful registrant will be notified and provided with a link to attend the online symposium.

For details, please visit our website:
www.hkjs.com.hk



ORGANIZING
INSTITUTIONS



CIBSE 40
Hong Kong

HKIE THE HONG KONG
INSTITUTION OF ENGINEERS
Building Services Division
建築師學會分部

ASHRAE Hong Kong
Chapter



Department of Building Services Engineering
The Hong Kong Polytechnic University

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Innovations for Smart Performance Buildings **Hong Kong & Greater Bay Area**

in *On-line*

P R O G R A M M E

09:30 - 09:35 WELCOME ADDRESS

Mr Walter Au

Chairman (Joint Symposium 2019/20 Organizing Committee), CIBSE Hong Kong Region

09:35 - 09:45 OPENING ADDRESS

Ir S H Lam, JP

Permanent Secretary for Development (Works), HKSAR

09:45 - 10:05 KEYNOTE SPEECH

Prof. Kevin Kelly

President-Elect, CIBSE UK

SESSION 1 – INNOVATIONS IN GREEN BUILDING DESIGN AND CONSTRUCTION

CHAired BY: HONG KONG POLYTECHNIC UNIVERSITY

(Prof. Asif Sohail Usmani, Head of Building Services Engineering Department)

10:05 - 10:25 Innovative Approach for Building Services Installations in West Kowloon Government Offices

Speaker: **Ir Iris Lau** (*Architectural Services Department, The Government of the HKSAR*)

Author: **Ir K.F. Ho, Ir Andrew Fung, Ir Iris Lau and Ir Ida Wang** (*Architectural Services Department, The Government of the HKSAR*)

10:26 - 10:28 Sponsor Session: *CLP Power Hong Kong Limited*

10:30 - 10:50 Sustainnovation in NKIL6556 - Next Generation of Sustainable Building Design

Speaker: **Ms Christy Chow** (*Ove Arup & Partners Hong Kong Limited*)

Authors: **Ir Alvin Lo, Ms Christy Chow & Ms Melody Wong** (*Ove Arup and Partners Hong Kong Ltd*) and **Mr Gary Leung & Ms Peggy Tang** (*Nan Fung Development Co Ltd*)

10:51 - 10:53 Sponsor Session: *Belimo Actuators Limited*

10:54 - 11:14 SureFire: Smart Urban Resilience and Firefighting

Speaker: **Dr Xinyan Huang** (*Department of Building Services Engineering, Hong Kong Polytechnic University*)

Authors: **Prof. Asif Usmani, Dr Fu Xiao, Dr Xinyan Huang, Dr Qixin Wang, Prof. Heng Li, Prof. Wenzhong Shi, Prof. George Huang, Prof. Jose Torero, Prof. Lu Xinzheng, Dr Welch Stephen** (*Department of Building Services Engineering, Hong Kong Polytechnic University*)

11:15 - 11:25 Questions for Session 1

11:25 - 11:35 Break

SESSION 2 – TECHNOLOGIES FOR ENHANCING USER EXPERIENCE

CHAired BY: ASHRAE HKC (Mr. Jacky Ng, President 2019)

11:35 - 11:55 Advanced Monitoring-based Commissioning in HVAC systems using Big Data Analytics

Speakers: **Dr Pan Lee** (*ATAL Building Services Engineering Ltd*)

Authors: **Dr Pan Lee, Ir Dave Chan & Mr Kenneth Lee** (*ATAL Building Services Engineering Ltd*)

11:56 - 11:58 Sponsor Session: *Trane Hong Kong*

12:00 - 12:20 Innovation in Optimizing Performance in Metro Stations

Speaker: **Ms Anne H.E. Beh** (*The Jardine Engineering Corporation Limited*)

Authors: **Ms Anne H.E. Beh** (*The Jardine Engineering Corporation Limited*), **Mr Brian W.N. Yip** (*Trane Service Hong Kong*), **Mr Steven K.H. Lai** (*WSP (Asia) Limited*) and **Mr William Y.M. Xie** (*WSP Consultancy Pte Limited*)

12:20 - 12:40 Retro-commissioning of building services installation

Speaker: **Ir Victor Leung** (*Victor Leung & Associates Limited*)

Author: **Ir Victor Leung** (*Victor Leung & Associates Limited*)

12:40 - 13:00 Evaluation of Degrading of Chiller Performance in Existing Buildings by Big Data Analytic Approach

Speaker: **Ir C.Y. Cheng** (*CLP Power Hong Kong Limited*)

Authors: **Ir Dr Anthony Lo, Ir C.Y. Cheng & Mr K.K. Li** (*CLP Power Hong Kong Limited*) and **Dr Paul Sat** (*Hong Kong Green Building Council*)

13:00 - 13:10 Questions for Session 2

13:10 - 13:15 Closing Speech:

Ir Dr Anthony Lo, Chairman 2019, HKIE BS Division