

# *Virtual ASHRAE Night 2021*

*Organized by ASHRAE Hong Kong Chapter*

**Date:** 31 March 2021 (Wednesday)

**Time:** 7:30 pm to 9:30 pm (HKT) for ASHRAE Night

**Purpose:** **ASHRAE Night** is an annual sociable gathering for both ASHRAE members and non-members by meeting with our honorable speaker, guests, Governors and Officers of Hong Kong Chapter, other ASHRAE members and friends in the HVAC&R, Energy Sustainable & Environmental related industry. Through this event, you can widen your networks and also know more about the organization of ASHRAE, its future planning, organization structure, research promotion and members' benefits.

**Content:** Rundown of ASHRAE Night:

7:30 pm – 7:40 pm	Attendants to click in the zoom link and brief introduction by MC
7:40 pm – 7:45 pm	Welcoming by Chapter President - <i>Mr. Tenny Tam</i>
7:45 pm – 8:15 pm	Brief Introduction of ASHRAE Membership
8:15 pm – 8:20 pm	Research Committee Promotion
8:20 pm – 8:25 pm	Young Engineers in ASHRAE (YEA) Promotion
8:25 pm – 9:10 pm	ASHRAE Technical Seminar by Professor Yuguo Li
9:10 pm - 9:30 pm	Q & A Session

**Fees:** **FREE of charge**

(Every ASHRAE member is encouraged to bring his/her friends and colleagues, who are not our members but working in HVAC&R, Energy Sustainable & Environmental related industry, to attend this event to know more information on ASHRAE Hong Kong Chapter.

**Registration:** To attend, please complete registration from the following website <https://forms.gle/eganw2b8QeMFPbxe7> on or before 24 March 2021. A zoom meeting link will be sent according to the registered emails of the participants separately.

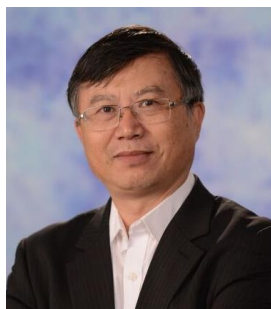
**Attendance:** 2-hour CPD certificate will be provided to all participants after the ASHRAE Night

**Enquiry:** For any queries, please contact our Membership Promotion Committee Chair, Mr. Eric Lau via email at [kwlau.eric@gmail.com](mailto:kwlau.eric@gmail.com)

*We look forward to meeting you and your friends in the ASHRAE Night!*

**ASHRAE Night 2021 – Technical Seminar on****“Minimum Ventilation Rates for COVID-19”****Speech by Honourable Speaker**

**Professor Yuguo Li**  
**Department of Mechanical Engineering**  
**The University of Hong Kong**

**Honorable Speaker:**

**Professor Yuguo Li**  
**Department of Mechanical Engineering**  
**The University of Hong Kong**

Yuguo Li is a Chair Professor of Building Environment at HKU. His current research topics include city climate, environment studies of infection and indoor environment. He serves as Editor-in-Chief of Indoor Air. Since early 2020, he has collaborated with WHO, Guangdong CDC, Hunan CDC and Jiangsu CDC and studied the transmission routes of SARS-CoV-2 in buildings. He is a member of the WHO IPC GDG and also WHO Environment and Engineering Control Expert Advisory Panel (ECAP) for COVID-19.

**Abstract**

Although airborne transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has already been acknowledged by leading health authorities, no existing standard for building ventilation yet considers the need to control respiratory infection. I shall explain why outdoor generally has a lower infection risk than indoor spaces, and why poor ventilation can worsen both short- and long-range airborne transmission. I shall present a new equal CO<sub>2</sub> exposure method to derive a set of minimum ventilation rates and associated maximum CO<sub>2</sub> concentrations in indoor settings with various activity levels (sleep or nap, sedentary/passive, light exercise, moderate exercise and heavy exercise) and breathing modes (breathing, speaking, singing and loudly speaking).