

DEVELOPING A VENTILATION STANDARD FOR INFECTION CONTROL: WHERE ARE WE?



ABOUT OUR SPEAKER

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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. Since early 2020, he has collaborated with Hong Kong Governmental departments, Guangdong CDC, Hunan CDC, and WHO, and studied the transmission routes of SARS-CoV-2 in buildings. He is a member of the WHO IPC GDG and WHO Environment and Engineering Control Expert Advisory Panel (ECAP) for COVID-19. Currently, he serves as co-chair of the Working Group for the WHO-led global technical consultation on the transmission of respiratory pathogens through the air.

ABOUT OUR WEBINAR

VENTILATION FOR INFECTION CONTROL



SARS-CoV-2 is predominantly transmitted by the airborne or inhalation route. The US White House called for a “Clean Air in Buildings Challenge” pledge opportunity in early 2022. Unfortunately, there is no standard existing on the required minimum ventilation. For general indoor air quality, the current required ventilation rates differ in indoor settings – buses, offices, and hospitals. Different from gaseous pollutants, infectious-virus aerosols can be removed by not only ventilation, but also other mechanisms such as filtration, deposition, and virus deactivation, complicated by the complex spatial distribution and transient effect of these dilution mechanisms. The speaker will introduce a new general Wells-Riley equation that promises the development of a unified theory of effective dilution in all indoor settings for infection control. Interim dilution requirement for all settings is proposed. Potential contribution from the engineering community is recommended.

EVENT DETAILS:

Date: **23 November 2022 (Wednesday)**

Time: 19:30 - 20:30

Online via Webex

Register on or before 18 Nov. (Fri.):

<https://imeche-events.webex.com/weblink/register/rc785f4653fdb52e214ff8ed78cec7fd>

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