



DETAILS

Date: 13th July 2020
Time: 2 pm to 4 pm
Venue: via Zoom

Who should attend:

- Building owners facilities managers
- consultants
- government agencies
- engineers
- project managers
- research scientists

involved in HVAC systems.

Registration: The event is free but registration is required. Registration closes on 9th Jul 2020. Confirmed registrations will receive a meeting link will be sent one day before event.

Click [HERE](#) to register.

Cooling Energy Science & Technology Singapore (CoolestSG)

Website: coolest.sg
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INTRODUCTION

The Covid-19 pandemic is far from over as we ease into a gradual opening up of our economy. Uppermost in the mind of those returning to work is the thought about how safe our built environment is. Building owners and facility managers are at the front line of interventions to secure our buildings for productive work. In this webinar and panel discussion, we will share insights on learning about Covid-19 and the effectiveness of public health measures being taken to deal with it, and the challenges faced by professionals involved in the design, operation and maintenance of buildings and building services in the time of Covid-19.

1400 - Welcome Note

1405 - Webinar Begins

PROGRAMME OUTLINE

Title: *What do we know about COVID-19 and what does this mean?*

Abstract: COVID-19 is caused by the SARS-CoV-2 coronavirus, and as a new pathogen, the world was caught unaware by how fast and how transmissible the coronavirus is. Importations seeded community transmissions in almost every country, and many of these countries continue to struggle in containing local transmissions. A diverse range of public health measures have been introduced in different countries, but have they been truly effective in containing the spread, especially given our evolving understanding of the coronavirus. Importantly, even for evidence-based measures, did the implementation and execution of these measures necessarily lead to the same outcome? I will briefly share what we have learnt about COVID-19 and how the knowledge have changed the way countries manage the outbreak, and also discuss some of the challenges encountered and those that lie ahead.

- TEO Yik Ying, NUS School of Public Health

Title: *Trilemma of energy efficiency, thermal comfort and productivity - post-Covid-19*

Abstract: As we emerge from the months of personal physical isolation to the gradual process of regaining productivity at work, we are likely to face numerous challenges in securing a workspace with reduced risks of infection. This presentation highlights the technical challenges and contradictions, with energy implications, in making our buildings and factories safe and comfortable for productive work.

- S.K. Chou, Dept of Mechanical Engineering, NUS

Title: *ACMV Design - what can we do to minimise spread of infection from pandemic threats similar to Covid-19?*

Abstract: ACMV systems can be used to assist in reducing the spread of infections in air-conditioned buildings through design and operation. Some of the possible techniques, such as displacement ventilation, increasing ventilation rate, minimise cross contamination, air filtration and disinfection will be explored and discussed. The implementation of some of these enhancements could improve the resilience of the building against the next pandemic wave or possible outbreak of another virus in the future. However, the role of ACMV systems in controlling the transmission of infection should be considered a part of a broader multi-modal infection control strategy in buildings.

- Steven Tay, Senior Principal, WSP

1520 - Panel Discussion

1600 - End of Event

SPEAKERS

Prof Teo Yik Ying is the Dean of the Saw Swee Hock School of Public Health at the National University of Singapore. Prior to his Deanship, he was the Founding Director of the School's Centre for Health Services and Policy Research (CHSPR) and also served as the Director of the Centre for Infectious Disease Epidemiology and Research (CIDER) from 2015 to 2017. He is presently a member on the Council of Scientists for the International Human Frontier Science Program, as well as a governing board member of the Regional Centre for Tropical Medicine and Public Health Network for Southeast Asia.

Er Steven Tay is Senior Principal at WSP. He is a Professional Engineer registered with Professional Engineers Board, Singapore, and has more than 20 years of experience in master planning, design and development of mechanical and electrical installations for buildings and infrastructure systems. He is also a member of the Green Mark Advisory Committee, BCA and member of the ISO 50001 Energy Management Working Group and Member, Professional Engineers Board, Singapore - PPE(mechanical) Examination Sub- Committee.

Prof Chou Siaw Kiang teaches at the NUS Department of Mechanical Engineering. He is Chairman of the Technical Committee, CoolestSG. He was the founding Executive Director of the NUS Energy Studies Institute from 2007 to 2017, and was Head of the Department of Mechanical Engineering, NUS, from 1998-2003. He is a Fellow and Emeritus President of the Institution of Engineers, Singapore, and a Fellow of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. He is a Fellow of the Singapore Academy of Engineering, the ASEAN Academy of Engineering and Technology, the Energy Institute, UK, and the ASEAN Federation of Engineering Organisations.