

Webinar



Managing COVID-19 and HVAC in Buildings for Emerging Economies

Thursday, June 18, 2020 | 8:00-9:30 a.m. EDT

Hosted by the Government Affairs Committee and the Epidemic Task Force of ASHRAE





- The audience will be muted for the entirety of the webcast.
- To ask a question, click the icon on the right-side of your screen



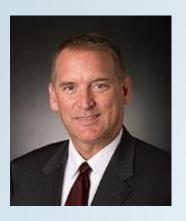
- When asking a question, please include your email and if your question is not answered, you can contact ASHRAE's Epidemic Task Force:
 COVID-19@ashrae.org
- This event is being recorded. The video recording and presentation files will be made available after the event.

OUTLINE



- Introduction
- Fundamentals of COVID-19 Risk Management
- Commercial Building Design for COVID-19 & Beyond
- HVAC System Operation in Residential Buildings during a Pandemic
- Question and Answers

Speakers and Moderator:



William P. Bahnfleth, PhD, PE
Professor of Architectural Engineering
The Pennsylvania State University
(Chair of ASHRAE Epidemic Task
Force and Former ASHRAE President)



Luke Leung, PE, LEED® Fellow Director of Sustainable Engineering Skidmore, Owings & Merrill LLP (Team Lead for Commercial/Retail on ASHRAE Epidemic Task Force)



Sitaraman Chandra Sekhar, PhD
Co-Director, Centre for Integrated
Building Energy and Sustainability in
the Tropics (CiBEST)
Professor, National University of
Singapore
(Team Member for Residential on
ASHRAE Epidemic Task Force)



Moderator: Ir Sam C. M. Hui, PhD Chair of Developing Economies Ad-Hoc and Regional Vice Chair (Region XIII) of ASHRAE Government Affairs Committee

ASHRAE OVERVIEW

Founded in 1894



56,000+ Volunteer Members

130+ countries

7,400+
Student Members
10+
Regions
190+
Chapters

400+

Student Branches

ASHRAE CELEBRATING
125
YEARS

200+ Standards and Guidelines

Industry Classification

Consulting Engineers
Contractors
Manufacturers
Manufacturing Representatives
Government, Health & Education
Design Build
Architects

59 Active
Research
Projects
Total of 907;
\$76 million

www.ashrae.org

ASHRAE EPIDEMIC TASK FORCE



Formed to deploy ASHRAE's technical resources to address current pandemic and future epidemics

- HVAC System Operation During Building Shutdown
- How to Return the HVAC System to Normal Operation
- Operating of Heating/Cooling System in Home
- Riding Mass Transit and Airlines
- Upgrading Filters and Use of Air Cleaners
- Healthcare Facilities, Commercial, Residential, Schools and Universities, Residential, Transportation

- Air Conditioning and Heating
- Ventilation Systems
- Exhaust Systems
- Filtration and Disinfection
- BAS and Access Control Systems
- **Elevator Control**
- Water Systems

www.ashrae.org/covid19



ASHRAE Technical Activities



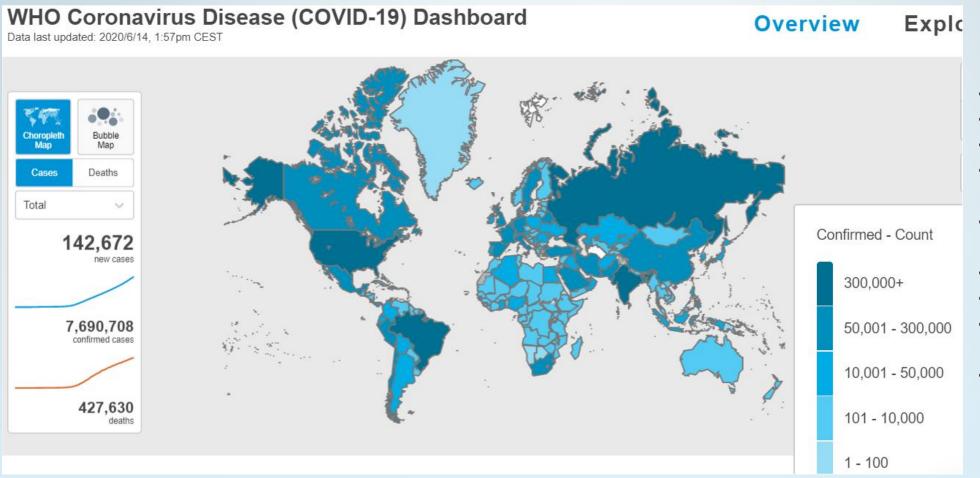
- ASHRAE 2020 Virtual Conference: Jun 22 to Jul 2, 2020
 - https://www.ashrae.org/conferences/ashrae-2020-virtual-conference
 - 80 on-demand sessions + 12 live sessions



- COVID-19: Opportunities for Sustainable Development (Mon, June 29, 2020, 3:10-4:20 PM)
- SARS, MERS, Ebola, COVID-19: How to Prepare for the Next Epidemic (Tue, June 30, 2020, 12:30-1:40 PM)
- Keynote: Effects of Building Ventilation on SARS-CoV-2 Transmission: A Preliminary Study (Wed, July 1, 2020, 3:10-4:20 PM)
- Impact of COVID-19 on Buildings (Thu, July 2, 2020, 3:10-4:20 PM)
- Short Course (Online): COVID-19 and Buildings: Re-Occupation after Lockdown July 8, 2020 | 8:00-10:00 a.m. EDT
 - https://www.ashrae.org/professional-development/all-instructor-led-training/online-instructor-led-training/covid-19-and-buildings-re-occupation-after-lockdown
 - The course identifies the equipment and procedures that are essential in protecting occupant health, bringing attendees up to date on the environmental conditions that are recommended to prevent the spread of the disease. The course also covers the measures that building services engineers need to take into account when buildings are reopened after a long shut down.

The Challenges of COVID-19 for Emerging Economies





- The health crisis.
- Strained resources
- Deficit and debt
- Food and medical supplies
- Lockdowns and economic consequences
- Reopening and safety
- Transmission risks
- Building operation and maintenance
- Healthy buildings

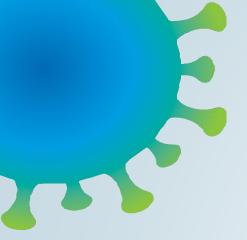
(Source: https://covid19.who.int/)

Webinar Presentations

Managing COVID-19 and HVAC in Buildings for Emerging Economies



- Professor William P. Bahnfleth
- 2. Commercial Building Design for COVID-19 & Beyond
 - Mr. Luke Leung
- 3. HVAC System Operation in Residential Buildings during a Pandemic
 - Professor Sitaraman Chandra Sekhar



Question and Answers



COVID-19@ashrae.org

Thank You for attending the webinar