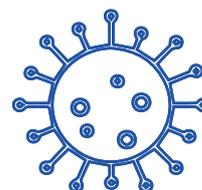
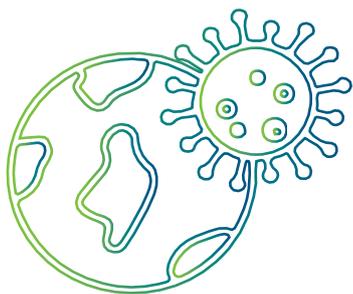


“COVID-19: Towards the New Norm” Webinar Series



In view of the current COVID-19 outbreak, indoor environmental controls are of vital importance to prevent the spread of diseases and maintain building occupants' health. HKGBC invited professionals from different fields including academia, consulting firms, and service or technology providers to share professional information on prevention of disease transmission, disinfection methods and air quality monitoring in indoor environment.



Date: 21 OCT 2020 (Wed)
6 NOV 2020 (Fri)
17 NOV 2020 (Tue)
4 DEC 2020 (Fri)

Time: 4:00 PM - 5:30 PM
HKT (UTC +8)

Venue: Online (Zoom)

Language: English

Credits:  6 CPD hours (1.5 CPD per webinar) will be automatically uploaded to participants' BEAM Pro/BEAM Affiliate Individual Accounts

 HKGBC Secretariat
(3994 8818)

 rpe@hkgbc.org.hk

Fee: Free of Charge

Limited seats. First come, first served

Supporting Organisation

ARUP

 **CityU** School of Energy and Environment
香港城市大學
City University of Hong Kong

 **HONG KONG INTERNATIONAL AIRPORT**

 **NAMI**

 **Schneider Electric**

 **SIEMENS**
Ingenuity for Life

 **THE HONG KONG POLYTECHNIC UNIVERSITY**
香港理工大學

 **J.C.D!Si**
賽馬會社會創新設計院

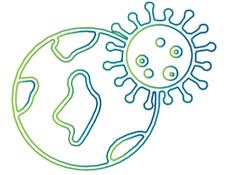
 **Faculty of Engineering**
THE UNIVERSITY OF HONG KONG

 **清华大学**
Tsinghua University

 **WORLD GREEN BUILDING COUNCIL**

 **WSP**

21 OCT 2020 (Wed)
4:00 pm - 5:30 pm



Opening speech

Mr Donald CHOI
Director cum Industry Standards and Practices Committee Chairman of HKGBC

Combating the Outbreak of COVID-19 Pandemic: HKIA's Measures

Mr David JEA
Senior Manager - Business Continuity Planning
Airport Authority Hong Kong

Mr Jea is currently the Acting General Manager, Safety Security Business Continuity (SSBC) at the Airport Authority Hong Kong. The responsibilities of the position include managing three of the core values which are essential to the "health" of the Authority. There are regulatory requirements under the Aerodrome license and local legislation, which the Authority is obliged to fulfill, in addition to the provision of an overriding duty of care. His role is to safeguard the Authority from any risks relating to SSBC by establishing and rigorously implementing comprehensive and effective corporate management systems under each of the elements. The tasks are made more complex with the ongoing capital works of the Third Runway System.



Health and wellbeing in built environment

Mr Tobias HUBER
Global Head for Business & Project - Development at Siemens Building Technologies
Siemens Smart Infrastructure



Tobias Huber is Global Head for Business & Project Development at Siemens Smart Infrastructure, headquartered in Zug, Switzerland. With regional hubs in the US, Europe, Germany, Middle East and Asia, the performance of +100.000 buildings is managed across the globe. Before taking over this responsibility, he developed a global solution portfolio for Siemens to enable energy efficiency and sustainability during the entire lifecycle of buildings. Based on cloud-based operating system and software applications, data monitoring has been extended towards analytics to manage operations and technical assets buildings. Today the priority is on decarbonization of real estate and health & wellbeing in buildings. With the impact from Covid19, building technologies & its operations have to be adapted immediately to minimize health risks. Prior to this role he was holding various operative and strategic positions at OSRAM lighting which brought him from Germany to China and onwards to Indonesia in General Management positions. Beside working for multinational companies, Tobias was Chairman for the European ESCO association and has an advisory role to the World Green Building Council. Tobias Huber was born 1973 in Munich, studied Business Administration, Communication and later on Computer Science.

How to make built environment safe: new challenge

Prof. YANG Xudong
Vice Dean - School of Architecture
Tsinghua University

Prof. Yang is presently the Chang-Jiang Professor of Building Science and Vice Dean of the School of Architecture, Tsinghua University, China. His research interests center on fundamental and practical aspects of indoor environmental quality and sustainable buildings within the following thematic areas: (1) understanding and modeling various indoor air pollutant sources and sinks; (2) immunized technologies for the built environment, and (3) energy intervention and environmental improvement in rural communities. He is a Fellow of American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) and International Society of Indoor Air Quality and Climate (ISIAQ). He currently serves as the founding Editor-in-Chief of Building Simulation and associate editor of Building and Environment, an executive committee member and representative of China in the IEA-EBC (Energy in Buildings and Communities), and various Chinese ministries and cities. He has received numerous awards including the Research Career Award from the US CDC (2000), the New Investigator Award from ASHRAE (2000), the Advance in Science and Technology award from the Chinese Ministry of Education (2000), the ASHRAE Distinguished Service Award (2008), the Award for Natural Sciences from the Chinese Ministry of Education (2013) and the ASHRAE Exceptional Service Award (2018).



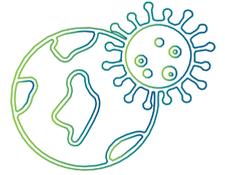
Transmission routes of SARS-CoV-2 and ventilation control

Prof. LI Yuguo
Professor - Department of Mechanical Engineering
The University of Hong Kong



Yuguo Li is a Chair Professor of Building Environment, and Honorary Professor of School of Public Health, the University of Hong Kong. His current research topics include city climate, environment studies of infection and indoor environment. His work led to the findings of the roles played by airflow in the 2003 Amoy Gardens SARS outbreak. He serves as Editor-in-Chief of Indoor Air. He was the President of Academy of Fellows of International Society of Indoor Air Quality (ISIAQ). Since early 2020, he has collaborated with Guangdong CDC, Hunan CDC and studied the transmission routes of SARS-CoV-2 in buildings. He is a member of Scientific Committee of Infection Control in Centre of Health Protection, Hong Kong SARS Government. He is also a member of the WHO Environment and Engineering Control Expert Advisory Panel (ECAP) for COVID-19.

6 NOV 2020 (Fri)
4:00 pm - 5:30 pm



Preventive Measures in HVAC Design for Pandemic Disease

Ir Kenneth LI
Executive Director
WSP (Asia) Limited

Mr. Kenneth Li is currently the Executive Director of WSP (Asia) Ltd., responsible for Mechanical and Electrical Engineering Consultancy Services. He actively participates in Green Building activities in various capacities. He is currently serving HKGBC as Council Director and member of Green Building Faculty. He is also the Chair of Water Expert Panel and Member for EU Expert Panel of BEAM Society Limited. As a practicing engineer, he is also serving HKIE as Deputy Chairman of Building Services Discipline Advisory Panel and Association of Consulting Engineers of Hong Kong as Vice Chairman.



Dispersion in a Dense City – Microscale Transport Among Buildings and Its Implication to a Healthy Environment



Dr LIU Chun-ho
Associate Professor, Department of Mechanical Engineering
The University of Hong Kong

Dr Chun-Ho Liu graduated from the Department of Mechanical Engineering, The University of Hong Kong and was a post-doc with National Center for Atmospheric Research, Colorado. His core research interests include: #1. air pollution physics and chemistry; #2. geophysical turbulence; and #3. scientific computing. After the COVID-2019 pandemic in early 2020, his research team is studying the microscale dispersion in the city. They attempt to examine how building morphology affects the transport processes, including aerosols and pollutants, among buildings. The key technical challenge is the urban canopy layer (the region around the building height) in which the dynamics is different from that of the conventional theory. The outcome would help refine building design to safeguard public health.

Blue is the new green: How digitization is ushering in a new generation of hyper-sustainable human-centric healthy buildings

Mr Cormac CROSSAN
Global Business Development Director - Commercial Real Estate
Schneider Electric

Cormac is passionate about the power of digitization to disrupt industries and is fascinated by the coming together of corporate organizations and technology. He has spent four years working on smart building projects around the globe and has extensive IT and data center experience. He currently helps real estate clients navigate the digital revolution. His BOLD idea is to achieve a digitized, electric and robotically enhanced workplace that contributes to the health and well-being of employees.



Effective Daily Disinfection in Buildings



Ir Dr Eva CHAN
Technical Manager
NAMI

Ir. Dr. Eva M.L. Chan earned a BSc degree in Mechanical Engineering and PhD degree from The Hong Kong Polytechnic University. In addition, she got a master degree of EMBA at The Chinese University of Hong Kong. She is a chartered Mechanical Engineer and works on R&D building materials with robotic system in construction industry in Hong Kong. Last year, she was also a visiting lecturer at The Hong Kong Polytechnic University. Currently, Ir. Dr. Eva Chan specializes in building application of robotic concrete printing and disinfectant technology. She has successfully applied this technology to the industry.

17 NOV 2020 (Tue)
4:00 pm - 5:30 pm



Detecting the Invisible Bacteria and Viruses in Indoor Air with Advanced Tools

Dr Patrick LEE

Associate Professor & Associate Dean (Undergraduate Studies) - School of Energy and Environment
City University of Hong Kong

Dr. Patrick Lee is an Associate Professor and the Associate Dean for Undergraduate Studies in the School of Energy and Environment at City University of Hong Kong. He received his BS degree in Chemical Engineering from Queen's University in Canada in 2001, and his MS and PhD degrees in Environmental Engineering from University of California, Berkeley in 2002 and 2007, respectively. From 2008 to 2010, he carried out post-doctoral research, also at University of California, Berkeley. Dr. Lee is the recipient of awards such as the World Cultural Council Special Recognition Award and Bioenergy Society of Singapore Achievement Award. His research group applies advanced biotechnology to study bioaerosols in the indoor and outdoor environments.



Engineering control on the potential aerosol transmission of SARS-CoV-2

Dr LIU Li

Associate Professor - School of Architecture
Tsinghua University

Dr. Li Liu is an Associate Professor at Department of Building Science, Tsinghua University. His research focuses on developing tools to quantify the health performance of indoor environment. He proposed that the short-range airborne transmission of pathogen-laden respiratory droplets in 2012, which was later adopted by the French Nosocomial Infection Association in 2017 as the fundamental of medical and nursing occupational protection requirements. During the COVID-19 pandemic, it was listed by the U.S. Environmental Protection Agency as the first one of five key literatures to understand aerosol dynamics and physical mechanisms in indoor air and COVID-19 infection. He also conducted environmental monitoring, diagnosis and optimization at frontline hospitals including Huoshenshan, Leishenshan, Jinyintan, and Jiangxia Fangcang in Wuhan and fever clinics in general hospitals since February 2020. The work helped minimizing nosocomial transmission of SARS-CoV-2, and it was awarded a first-class performance award of Chinese Society for Environmental Sciences.



How digitization is enabling the 'new normal' in the Workplace

Mr Steven LEE

Head of Marketing
Schneider Electric Hong Kong

Steven Lee is the Head of Marketing at Schneider Electric Hong Kong. Associated with the company from the last nine years and held various positions in Hong Kong & France. Steven is responsible for forming and implementing marketing strategy to meet company's business objectives in the region. He also evaluates and manages new strategic business opportunities, defines short term and long-term business plans, oversees market trends and analysis, monitors competitive activity, and delivers business intelligence to provide the industry trend.

Steven is an MBA degree holder from Hong Kong University of Science & Technology and has pursued BEng (Hons) in Electronics and Information Engineering, The Hong Kong Polytechnic University.



COVID 19 - Challenges to Hong Kong towards a Liveable City

Prof. LING Kar-kan

Director - Jockey Club Design Institute for Social Innovation
Professor of Practice (Planning)
The Hong Kong Polytechnic University

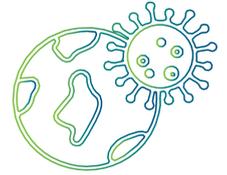
Prof K. K. Ling is a professional town planner. He was the Director of Planning of HKSAR Government and President of the Hong Kong Institute of Planners.

He is now the Director of Jockey Club Design Institute for Social Innovation of The Hong Kong Polytechnic University. He also serves the community as the Vice Chairman of the Hong Kong Housing Society, Director of the Hong Kong Cyberport Management Company Limited and Chairman of its Entrepreneurship Committee, and the Chairman of the Country and Marine Parks Board.

He is also the Adjunct Professor of the University of Hong Kong and the Chinese University of Hong Kong, and Professor of Practice (Planning) of The Hong Kong Polytechnic University.



4 DEC 2020 (Fri)
4:00 pm - 5:30 pm



Current and Recent Disinfection Technologies for Indoor Environment

Prof. Alvin LAI
Associate Head, Department of Architecture and Civil Engineering
City University of Hong Kong

Dr. Alvin Lai received his bachelor degree in Building Services Engineering from Hong Kong Polytechnic University and his MPhil. from Mechanical Engineering Department, Hong Kong University. He obtained his Ph.D. from Imperial College. He spent three years working as a post-doctorate fellow in University of California, Berkeley before joining Nanyang Technology University, Singapore in December 2000. He started his work in City U since Feb-2007. His main research areas are environmental health, indoor air quality with the emphasis on bioaerosol disinfection, exposure and filtration technology. He has published more than 90 archival journal papers.



Neuron Health - an artificial intelligent technology to realize healthy built environment

Ir Dr Tony LAM
Lead of Sustainability
Arup

Tony is a building sustainability specialist, he has extensive experience in tackling environmental impacts on the built environment, particularly in designing low carbon, wellness and healthy building development. He is a green design expert and has completed a number of exemplar sustainable projects in East Asia, including K11 Atelier King's Road, CIC ZCB, HKHA Housing Communities, Hualian Residence in Taiwan and South Beach in Singapore.

Mobility of things

Mr Keith CHENG
Head of Digital Hub
Siemens Advanta Solutions Hong Kong and Macao

Before Joining Siemens Hong Kong in Aug 2000, Keith was working for Optus-Singtel in Sydney as a telecommunication specialist responsible for transmission/Access Network capacity planning and data center implementation. During his 17 years within Siemens, he was working in the Mobility Division on mainly railway projects and progress his career from Engineer to eventually the Head of the department managing Projects, Bids, Innovation and people development. The area of responsibility were transmission data network, telephone systems, station public address announcement systems, passage display system, CCTV system, SCADA control systems and electrical switch gears for the railway overhead lines. Keith grew the team from 8 to 80 people within 4 years and he is looking forward to a new challenge ahead. Keith is also passionate about young talent development with attendance in career fair and career talks with University undergraduates. Around 10% of his team is employed through these channels and also through internships programmes. Currently, Keith is working in the MindSphere Application Center since 1st Oct 2017 as the Siemens Hong Kong Lead for innovation ideas and software development to enable to better serve our customers and address our customers daily challenges with the application of MindSphere.



'WorldGBC Health & Wellbeing Framework', a high-level educational tool to redefine the scope of health and wellbeing in a sustainable built environment

Ms Catriona BRADY
Strategy Planning Lead and Head of Better Places for People
WorldGBC



Catriona Brady is Head of the World Green Building Council's Better Places for People global project, participated in by over 30 GBCs from around the world, and regularly producing industry-leading deliverables around health and wellbeing in the built environment. Catriona is an established international conference speaker, and regularly presents at high level events, industry conferences, and webinars. She also serves on a number of expert Taskforces, including the WELL Taskforce on COVID-19. Additionally, Catriona leads the Strategy Planning for the World Green Building Council, and is responsible for the creation and implementation of the new WorldGBC Strategy 'Sustainable Buildings for Everyone, Everywhere'.

Catriona has a background in environmental and sustainability consultancy, and experienced professional in implementing green and healthy building certifications in projects worldwide. Catriona is also an experienced secondary school teacher, qualified in Geography, with additional background in professional services (plus a qualified spin instructor).