

Biomedical Engineering Conference BME2020: Fighting COVID-19 and Future Pandemics with Innovation & Technology

27 – 28 November 2020
Online Conference



Biomedical Division
生物醫學分部



Call for Papers

The COVID-19 strikes the world in the blink of an eye, infecting millions of people, and causing hundred thousands of deaths all over the world. While clinicians are combating in the first line of defense against pandemics, engineers, technologists, and innovators swiftly apply their knowledge to develop and bring in innovative technologies to support the healthcare system.

This online conference gathers delegates with different expertise in manufacturing industry, research and product development, clinical engineers, under one virtual roof to exchange experience and ideas in combating pandemics with innovations and technologies.

Major Themes of BME2020

The major topics of the conference include but not limited to innovation and technology of:

- *Artificial intelligence and robotics*
- *Disease diagnosis, prevention, monitoring, treatment and therapy*
- *Disinfection and personal protective equipment*
- *Research, development and management of medical devices*
- *Healthcare system and infrastructure*

- *Healthcare data management*
- *In-vitro diagnostics and rapid screening*
- *Precision healthcare*

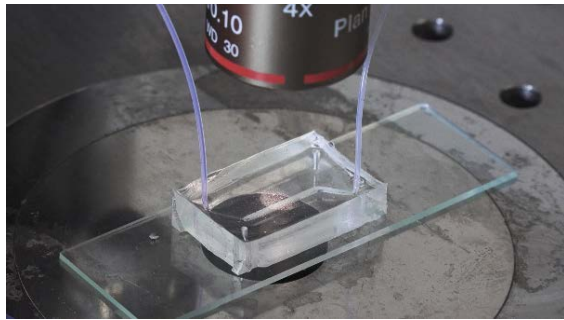
Important Dates

Abstract Deadline 15 October 2020
Acceptance Notification 27 October 2020
Online registration required via website (free)

Abstract Submission

Contributions on all aspects of innovation and technology in combating pandemics. An electronic form (in MS-Word or PDF format) of one-page abstract (a minimum of 200 words) with paper title, author names, affiliations, and the corresponding author's phone/fax number and e-mail address should be submitted to the BME2020 Conference Secretariat via the email: bme2020hkie@gmail.com

Presentation slots will be limited and early submissions are encouraged.



Conference Chairs of BME2020

Ir Prof Richard SO, Co-General Chair
The Hong Kong University of Science & Technology

Ir Raymond POON, Co-General Chair
Electrical and Mechanical Services Department

Ir Bryan SO, Programme and Co-Area Chair
The Chinese University of Hong Kong

Ir Prof Raymond TONG, Co-Area Chair on Industry
The Chinese University of Hong Kong

Dr Kannie CHAN, Co-Area Chair on Clinical Engineering
The City University of Hong Kong

Dr Thomas LEE, Co-Area Chair on Research & Development
The Hong Kong Polytechnic University

Conference Organising Committee

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Mr Will LEUNG, EMSD
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Ir Karon LO, Wise Ally
Ir Stanley SIU, EMSD
Ir Prof Min WANG, HKU
Prof Terence WONG, HKUST

Conference Secretariat of BME2020

c/o Mr Will Leung
Email: bme2020hk@hkust.edu.hk

International Technical Committee (tentative)

Dr April CHOW
CUHK Medical Centre
Prof James GOH
National University of Singapore
Prof Johnson Chih-Chung HUANG
National Cheng Kung University
Prof CT LIM
National University of Singapore

Guest of Honour

Ir Alfred SIT Wing Hang, JP,
Secretary for Innovation and Technology
The Government of the HKSAR



Keynote Speakers

Ir Prof YUEN Pak Leung

Ir Prof PL YUEN is the President of HKIE Session 2020/2021. He is a professional engineer working in the public hospital engineering sector in Hong Kong with more than three decades' experience. He started working in the Hong Kong Government's departments for public hospitals construction, operation and maintenance before joining the then-newly established Hospital Authority in the 90s. Currently, as part of the management of the Hospital Authority Head Office, he oversees all public hospital engineering facilities and related processes, from design and construction



through to operation and maintenance. He also leads and supervises environmental and energy sustainability initiatives for both new and existing public hospitals, including two upcoming major projects for public hospital infrastructure development. He has won the US Association of Energy Engineers' (AEE) "Regional Energy Project of the Year Award" for Asia-Pacific Rim Region for different innovative energy-saving and cost-effective projects for three consecutive years.

Prof. Paul Kay Sheung CHAN

Professor Paul Chan is the Clinical Professor and Chairman of the Department of Microbiology, and Deputy Director of the Stanley Ho Centre for Emerging Infectious Diseases, Faculty of Medicine, The Chinese University of Hong Kong. He is also Honorary Consultant in Microbiology for the New Territories East Cluster Hospitals of Hong Kong Hospital Authority. Professor Chan is a renowned clinical virologist with special interest in tumour virology, human respiratory viruses and microbiome. He serves many key professional bodies in Hong Kong, including the Scientific Committee on Emerging and Zoonotic Diseases of the Centre for Health Protection, the Grant Review Board for Medical and Health Research Fund, the Hong Kong College of Pathologists Examiner Committee. Professor Chan is also a partner of the Global Outbreak Alert and Response Network. He is Editor-in-Chief of the Journal of Virological Methods.



Prof Philip Wai Yan CHIU

Assistant Dean (External Affairs); Professor, Department of Surgery, Faculty of Medicine, The Chinese University of Hong Kong
Director
Multi-Scale Medical Robotics Center



Prof James GOH

Professor
Department of Biomedical Engineering National University of Singapore



Prof Johnson Yiu Nam LAU

Adjunct Professor
Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University



Dr Terence L. T. LAU

Interim Associate Vice President
Innovation and Technology Development
Director of Innovation and Technology Development, The Hong Kong Polytechnic University



**Conference Speakers
(more to come)**

Mr Eric CHAN

Chief Architect of Open Platform
WeBank



Prof Matthew Robert MCKAY

Professor
Department of Electronic and Computer Engineering; Department of Chemical and Biological Engineering, The Hong Kong University of Science and Technology



Last update on 5 October 2020

Dr Gilman Kit Hang SIU

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Prof Kang ZHANG

Professor
Faculty of Medicine,
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Science and Technology



Dr Eugene Fidelis SOH

Chief Executive Officer
Tan Tock Seng Hospital
and Central Health
Singapore
Chairman
Centre for Healthcare
Innovation Co-Learning
Network Singapore



Registration Fee

The Conference is free of charge. Registration
via website is required.

Website

<https://bme2020hkie.wixsite.com/bme2020>

Ms Adriana VELAZQUEZ-BERUMEN

Group Lead Medical
Devices and In-Vitro
Diagnostics
World Health Organization



Other enquiries should be directed to:

BME2020 Conference Secretariat
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The Hong Kong Institution of Engineers
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Co-organizer

機電工程署
EMSD



Supporting Organizations (more to come)

