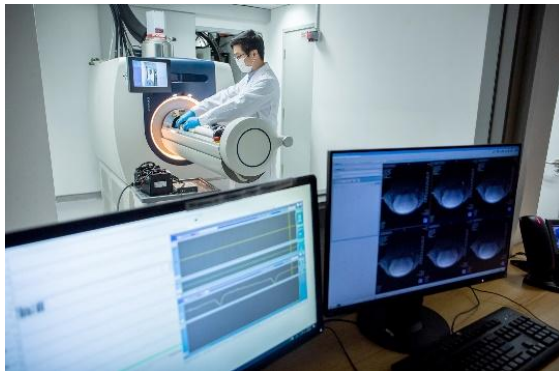


# Biomedical Engineering Conference BME 2020: Fighting COVID-19 and Future Pandemics with Innovation & Technology

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

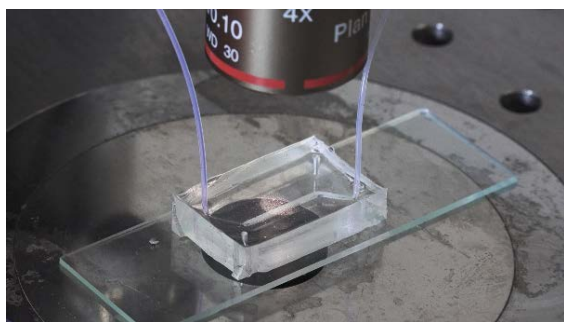
### Important Dates

Abstract Deadline	15 October 2020
Acceptance Notification	27 October 2020
Online registration via website	25 November 2020

### 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](mailto: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

Ir Prof Daniel CHOW, EdUHK

Ir Yorkie CHOW, DH

Ms Martha HAO, Wise Ally

Ir Dr LIN Yuan, HKU

Mr Will LEUNG, EMSD

Ir Dr CK LI, HKAAS

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: [bme2020hkie@gmail.com](mailto:bme2020hkie@gmail.com)



### International Technical Committee

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*



### Opening Address

***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.

## Keynote Speaker

### **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.



## Plenary Speakers

### **Prof James GOH**

President

*International Union of  
Physical and Engineering  
Sciences in Medicine  
(IUPESM)*

Past- President,

*International Federation on  
Medical and Biological  
Engineering (IFMBE)*

Professor,

*Department of Biomedical Engineering,  
Faculty of Engineering, National University of  
Singapore*

*Department of Orthopaedic Surgery, Yong  
Loo Lin School of Medicine, National  
University of Singapore*



### **Ms Adriana VELAZQUEZ-BERUMEN**

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



### **Ir Raymond FU**

Director and Engineering  
Manager  
*Vincent Medical  
Manufacturing Co., Ltd.*



### **Mr Charles CHU**

Engineering Supervisor  
*Vincent Medical  
Manufacturing Co., Ltd.*



## Invited Speakers (more to come)

### **Mr Kevin CAI**

Chief Information Officer  
*Hospital Authority*



### **Dr Anthony CHAN**

Program Head  
Biomedical Engineering  
Technology Program  
*British Columbia Institute of  
Technology*



### **Prof Gary CHAN**

Professor  
*Department of Computer  
Science and Engineering  
The Hong Kong University  
of Science and Technology*





**Mr Eric CHEN**

Chief Architect of Open  
Platform  
*WeBank*



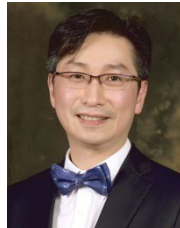
**Mr Stephen LOH**

Chief Development Officer  
*Tan Tock Seng Hospital*



**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 Matthew Robert MCKAY**

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



**Prof Johnson Yiu Nam LAU**

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



**Prof Andrew MILLER**

Professor  
*Division of Life Science  
and State Key Laboratory  
for Molecular  
Neuroscience  
Hong Kong University of  
Science and Technology*



**Dr Terence L. T. LAU**

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



**Mr Rupert MOK**

Secretary General  
*Hong Kong Medical and  
Healthcare Device  
Industries Association*



**Ms Junchen LIAO**

Ph.D. candidate  
*Department of Biomedical  
Engineering  
City University of Hong  
Kong*



**Mr. Kevin ORR**

Group Vice President &  
CIO  
*Winner Medical Group*



**Dr Huang-Jing LIN**

Director of Research &  
Development  
*Insight Medical  
Technology Co. Ltd*



**Dr. Seil PARK**

Assistant Director  
*Cardiovascular and Imaging  
Devices Division  
National Institute of Food  
and Drug Safety Evaluation  
Ministry of Food and Drug  
Safety*

**Dr Gilman Kit Hang SIU**

Associate Professor  
Department of Health  
Technology and Informatics,  
The Hong Kong Polytechnic  
University



**Mr Yiu Chau TAM**

Master of Philosophy Student  
Department of Biomedical  
Engineering  
The Hong Kong Polytechnic  
University



**Dr Binseng WANG**

Vice President, Program  
Management  
Sodexo Health Technology  
Management



**Dr CH WONG**

Director of Science  
Avalon Steritech  
(company working with MTR  
disinfection work)

**Mr Eric WOO**

Regional Director, Asia  
Pacific  
ECRI



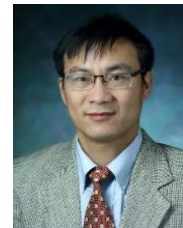
**Prof Chenjie XU**

Associate Professor  
Department of Biomedical  
Engineering  
City University of Hong  
Kong



**Dr. Jiadi XU**

Assistant Professor  
Russell H. Morgan  
Department of Radiology  
and Radiological Scienc,  
FM Kirby Research Centre,  
Kennedy Krieger Institute  
School of Medicine  
Johns Hopkins University



**Prof King Lun YEUNG**

Professor  
Department of Chemical  
and Biological Engineering  
Division of Environment  
and Sustainability  
The Hong Kong University  
of Science and Technology



**Prof Kang ZHANG**

Professor  
Faculty of Medicine,  
Macau University of  
Science and Technology  
School of Medicine, Johns  
Hopkins University



**Registration Fee**

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

**Website**

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

Other enquiries should be directed to:

BME2020 Conference Secretariat  
c/o Mr Will LEUNG  
Biomedical Division  
The Hong Kong Institution of Engineers  
Email: bme2020hkie@gmail.com

Last update on 19 November 2020

## Co-organisier



## Sponsor



## Supporting Organisations (more to come)

