

# MANUFACTURING, INDUSTRIAL & SYSTEMS DIVISION

## ANNUAL REPORT FOR SESSION 2020/2021

### *Chairman Message*

It is my great honour to serve as the first Chairman of Manufacturing, Industrial & Systems (MIS) Division which has been renamed from Manufacturing and Industrial (MI) Division since Session 2020/21. With tremendous support of all fellow committee members and affiliates, I feel most grateful to report that the Division has achieved further success despite COVID-19 pandemic is still affecting Hong Kong seriously. The Division would also like to express our sincere gratitude and heartfelt appreciation for your kind support to us during an exceptionally tough and unforgettable time.



With the health and safety of all members of our community of mind, we have planned all of our technical seminars online or in hybrid mode since the beginning of this Session. The Division organized a series of technical seminars to engage members who are interested in the latest development of smart city as well as re-industrialisation. Particularly, various speakers were invited to share their insights of hot topics like robotics, IoT, PPE, I4.0, BIM, etc. The seminars did attract many students, young and professional members as well as practitioners from the industry. Details of the activities are tabulated in Appendix B.

We are particularly proud that our Annual Conference themed “Digital Transformation – Challenges and Opportunities for Engineering and Construction Industry” was successfully held on 28 October 2020. The Conference was co-organized by IVE Engineering of the Vocational Training Council and Manufacturing, Industrial, Logistics, Enterprise and Systems Alumni Association of The Hong Kong Polytechnic University. I would like to extend my gratitude to keynote speakers from The Hong Kong Electrical and Mechanical Contractors Ltd., and Smart City Consortium, and all other speakers of the Conference. Special thank goes to Ir Prof PL Yuen and Ir Dr The Hon WK Lo for their welcoming and opening address.

Even though we are still facing the health crisis brought by COVID-19, I am very glad that the Division is going to run the HKIE MIS Industry Award for the first time. The Award aims to recognize the excellent achievements of relevant industries in Hong Kong in enhancing their manufacturing productivity, product quality and innovation in real industrial context.

Unfortunately, our annual Gala Dinner, originally scheduled on 6 May 2021, has to be rescheduled to be held on 11 Nov 2021. I am very much looking forward to seeing all fellow engineers and friends in this wonderful event soon. Taking this opportunity, I would like to thank all our supporters of the Dinner, not only for their financial support but also their understanding and patience.

Despite the continuation of pandemic, the Division also sees opportunities brought to Hong Kong's re-industrialisation. I am particularly pleased that a cover story was jointly developed by the Division and the Federation of Hong Kong Industries which will be published in May 2021 issue of the *Hong Kong Engineer*. The title of the story is "Proudly made in Hong Kong ... again. How COVID-19 is accelerating Hong Kong's re-industrialisation". The story gives a brief Hong Kong's industrialisation journey and shares few examples of latest industrial development during COVID-19. It concludes that new opportunities for products and services require our young engineers to equip themselves with new thinking, skills and creativity to help accelerate Hong Kong's re-industrialisation.

Lastly, I would like to express my sincere thanks to our past chairmen, observers, committee members, co-opted members and affiliates for their unfailing support and valuable contributions to this very challenging session. Thank you for your continued support and I hope you and your family are safe and healthy!

***Ir Dr Eric LIU***

***Chairman, Manufacturing, Industrial and Systems Division  
Session 2020/2021***

## **Appendix A: List of Committee Members**

### **Office Bearer**

Ir Dr Eric LIU Sai-lok	Chairman
Ir Peter SI Kit	Deputy Chairman
Ir Angel WONG Yuen-yee	Honorary Secretary
Ir Dr Jimmy LI Chi-ho	Honorary Treasurer
Ir Dr Ritz LAU Ming-ho	Immediate Past Chairman

### **Committee Member**

Ir Dr CHAU Yiu Chung  
Ir Dr CHEUNG Hoi Hoi  
Ir Herman CHIU Wing Cheong  
Ir Peter CHOW Hin Yan  
Ir Dr LAI Kam Keung  
Ir Timothy LEE Kin Sang  
Ir Dr Victor LO Hing Yau  
Ir Dr MAK Siu Lun  
Ir Dr Sammy WAN Kin Man  
Ir Sidney WONG Wing Fai  
Ir Ricky WU Siu Wa  
Ir Andy YEUNG Kong Choi  
Miss Candace CHAN Yuen Yu^  
Miss Eunice KWOK Lok Yee^  
Miss Michelle NG Tsz Wing^

### **Ex-officio Member**

Ir Peter CHAK Chi-kin	DAP
Ir Harriet CHAN Ying Ha	SSC
Mr Derek MAN Lee-yeung	AMC
Mr CHAN Arthur	YMC

**Co-opted Member**

Ir Lewis CHOI Ka Yin

Ir Dr Jackson TANG Chi Shing

Ir Wilson LI Kar Kit

**Observer**

Ir Dr WONG Yiu-man

Ir HO Sau Chiu

Ir Dr Peter TSE Wai Tat

Ir Prof CHAN Philip

**Affiliate**

Mr. Tony CHAN Tung Wai

Mr. Kenneth LAM Chi Wai

Miss Cadence LAW Wing Ting

Miss Kiki LAW Ka Ki

Mr. Laurence LEE Cheuk Wang

Mr. Eddie LIU Po Shing

Mr. POON Ronstar Ferris

Mr. Silviu SZE Wing Hin

Dr. Patrick WONG Kam Yin

*^ Ordinary Member(s) who is 35 years of age or below.*

## Appendix B: List of Activities Organized / Co-organized by the Division

Date	Type	Name of Activity	Organiser(s)	Speaker(s)
11 Jun 2020	Webinar	Technical Webinar on “Smart City Development for the Future”	<ul style="list-style-type: none"> <li>♦ HKIE MI Division</li> <li>♦ HKIE EN Division</li> <li>♦ IVE Engineering</li> <li>♦ Smart City Academy</li> </ul>	Various
3 Jul 2020	Webinar	Technical Webinar on “Strategizing innovation - The first introduction of ISO 56002 Innovation Management System Standard Webinar in Hong Kong” “運籌創新有法 - 全港首個介紹 ISO 56002 創新管理系統標準指南網上分享會”	<ul style="list-style-type: none"> <li>♦ Institute of Systematic Innovation, Hong Kong</li> <li>♦ Hong Kong Quality Management Association</li> <li>♦ IVE Engineering</li> </ul>	Various
5 Aug 2020	Webinar	Technical Webinar on "New Initiatives in Digital Construction Industry"	<ul style="list-style-type: none"> <li>♦ IVE Engineering</li> </ul>	Various
4 Sep 2020	Webinar	Technical Webinar on “Occupational Safety and Health for Smart City 2020"	<ul style="list-style-type: none"> <li>♦ HKIE CA Division</li> <li>♦ HKIE GE Division</li> <li>♦ HKIE SSC</li> <li>♦ IVE Engineering</li> <li>♦ Towngas Engineering Academy</li> <li>♦ PolyU, MILES Alumni Association</li> </ul>	Various
17 Sep 2020	Webinar	Webinar on “The Development of Personal Protection Equipment (PPE) Manufacturing Industry in Hong Kong”	<ul style="list-style-type: none"> <li>♦ IVE Engineering</li> </ul>	Various
30 Sep 2020	Webinar	Technical Webinar on “Exploring the realms of future Smart City career with AI, FinTech and Cloud technologies”	<ul style="list-style-type: none"> <li>♦ IVE Engineering</li> <li>♦ Smart City Academy</li> </ul>	Various
28 Oct 2020	Webinar	Manufacturing, Industrial & Systems Annual Conference 2020 – Digital Transformation - Challenges and Opportunities for Engineering and Construction Industry	<ul style="list-style-type: none"> <li>♦ IVE Engineering</li> <li>♦ PolyU, MILES Alumni Association</li> </ul>	Various
19 Nov 2020	Webinar	Webinar – Route to Registered Quality Management Engineers	<ul style="list-style-type: none"> <li>♦ HKIE CA Division</li> <li>♦ The Institute of Measurement and Control</li> <li>♦ OpenU, School of Science and Technology</li> </ul>	Various
12 Dec 2020	Webinar	Technical Webinar: SMART transformation - Road to Industry 4.0	<ul style="list-style-type: none"> <li>♦ HKIE MI Division</li> </ul>	Dr. Fung Wah Cheong

				Vincent, Executive Director of Kin Yat Holdings Limited
18 Dec 2020	Webinar	CPD Webinar “Digital Works Supervision System (DWSS) -the Applications of Systems Engineering in Construction Industry”	♦ IVE Engineering	Various
9 Jan 2021	Webinar	CPD Webinar on "How COVID-19 has accelerated the adoption of VAR for training"	♦ HK ACM SIGGRAPH Professional Chapter	Various
26 Feb 2021	Webinar	Webinar –Building Information Modelling (BIM) Opportunities	♦ IETHK MIE Section ♦ OpenU, School of Science and Technology ♦ Institute of Industrial and Systems Engineers (IISE) Hong Kong Chapter ♦ Vocational Training Council (VTC) – Engineering Discipline	Various
11 Mar 2021	Webinar	Webinar – Applications of Algal Technologies in Sewage Treatment	♦ HKIE – CA Division ♦ IETHK MIE Section ♦ The IEEE – Product Safety Engineering Society, Hong Kong Chapter ♦ The Institute of Measurement and Control, Hong Kong Section	Prof HO Kin-chung, BBS, JP
20 Mar 2021	Webinar	Webinar-The Deployment of Autonomous Delivery and Follow-Me Robotics During Outbreak of COVID-19 in Hong Kong	♦ HKU, Dept. of Industrial and Manufacturing Systems Engineering	Various
26 Mar 2021	Webinar	Webinar: Planning Your Organization’s Innovation Journey	♦ HKIE EN Division ♦ HKIE AMC ♦ Institute of Systematic Innovation, Hong Kong	Ir Dr. Victor Lo