



### The 19<sup>th</sup> Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2022)

by Ir. Prof. Dr Dominic Foo Chwan Yee

Ir. Prof. Dr Dominic Foo Chwan Yee is currently the Secretary/Treasurer of Chemical Engineering Technical Division (CETD).

The 19th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2022) which was organised by the Chemical Engineering Technical Division (CETD) of IEM was successfully held at the Kuala Lumpur Convention Centre (KLCC) between 9 and 12 August 2022. The theme of APCChE 2022 was “Working Towards a Sustainable Society” which focussed on the various challenges faced by chemical engineers in complying with sustainable development goals. This was the first international conference organised by IEM since the COVID-19 pandemic, and had attracted participants from 10 countries. A total of 120 physical and 130 online presentations were delivered.

APCChE 2022 commenced on 9 August with the judging of two university level competitions, namely 2<sup>nd</sup> Chem-E-Car Poster Competition (a physical event) and 10<sup>th</sup> IEM Chemical Engineering Design Competition (a virtual event). The Chem-E-Car Competition is aimed at challenging undergraduate students from institutions of higher learning to design a vehicle that is powered entirely by a chemical energy source. A total of 18 teams took part, which included 7 teams from Indonesia and one from India. The IEM Chemical Engineering Design Competition was initiated with the objective of enhancing design competency from a practical as well as methodological approach. A total of 13 teams took part in this competition which had the theme “Valorisation of Plastic Wastes Using Chemical Recycling Technology”.



Photo taken during APCChE 2022 Opening Ceremony

From Left: Ir. Prof Dr Jeffrey Chiang Choong Luin (IEM Deputy President), Dato' Dr. Mohd Nazlee Kamal (Chief Executive Office of Solution Biologics Sdn. Bhd.), Ir. Prof. Dr. Norlida bt Buniyamin (IEM President), YBhg. Dato' Ir. Prof. Dr. Zaini Ujang (Secretary General of the Ministry of Environment and Water, KASA), Mr. Kamal Bahrin B Ahmad (Senior Vice President & Chief Executive Officer of Petronas Refinery & Petrochemical Corporation Sdn. Bhd.) and Ir. Prof. Dr. Dominic Foo Chwan Yee (President APCChE 2022)

The Opening Ceremony of APCChE 2022 was held on 10 August 2022. This was followed by three plenary talks delivered by YBhg. Dato' Ir. Prof. Dr. Zaini Ujang (Secretary-General of the Ministry of Environment and Water, KASA), Mr Kamal Bahrin bin Ahmad (Senior Vice-President and Chief Executive Officer of Petronas Refinery & Petrochemical Corporation Sdn. Bhd.) and Dato' Dr. Mohd Nazlee Kamal (Chief Executive Office of Solution Biologics Sdn. Bhd.). After the lunch break, parallel paper presentations were conducted in 6 separate rooms (2 virtual rooms plus 4 physical rooms at KLCC). A total of 210 papers were presented through 26 physical sessions and 23 virtual sessions between 10 and 12 August 2022, covering the following topics:

- Cleaner Production and Circular Economy
- Waste Treatment and Management
- Bioproducts, Food and Bioprocessing
- Nanotechnology and Advanced Materials
- Process Systems Engineering
- Reaction Engineering and Catalyst
- Oil & Gas
- Sustainable Palm Oil
- Chemical Engineering Education

On 12 August 2022, two post-conference workshops were held at Impiana KLCC Hotel, on “Fluid Flow, Pressure Drop, and Hydraulic Analysis” (conducted by Mr. Wiroon Tanhapanichakoon of Thailand) and “Economics of Industrial Decarbonization” (conducted by Prof Santanu Bandyopadhyay of India).

CETD gratefully acknowledges the support and sponsorships provided for the event by Malaysia Convention and Exhibition Bureau (MyCEB), Society of Chemical Engineers Japan (SCEJ), and Solution Biologics Sdn. Bhd.



Executive Committees of APCChE 2022

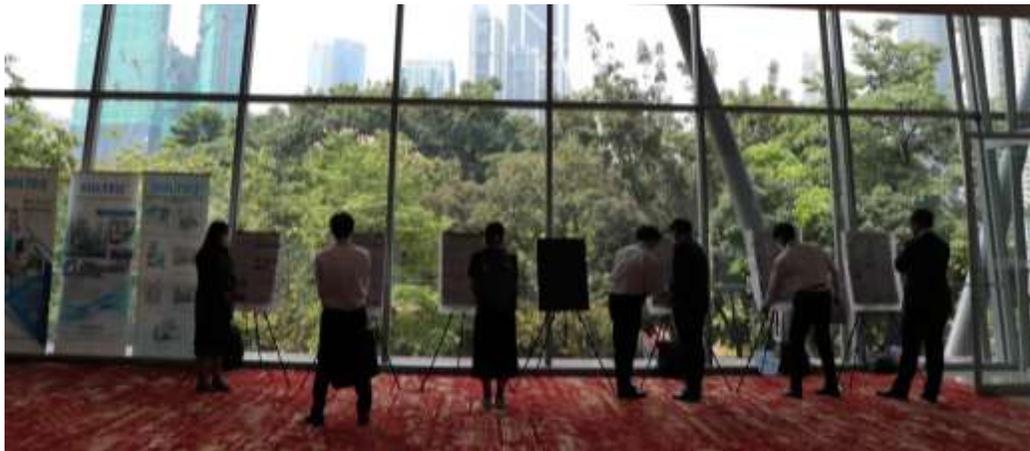
*From Left: Prof Dr Hon Loong Lam (Co-chair), Ir Razmahwata Mohamad Razalli (committee member), Ir Prof Dr Dominic C. Y. Foo (Chairman), Ir AP Dr Chien Hwa Chong (committee member), Ir Thayananthan Balakrishnan (committee member), Ir Prof Dr Thomas Choong (committee member)*



*Plenary speech by YBhg. Dato' Ir. Prof. Dr. Zaini Ujang (Secretary-General of the Ministry of Environment and Water, KASA)*



Welcoming Reception at APCCHE 2022



The Posters Presentation