

# Beckoning the betterment of society

**The World Metrology Day (WMD), World Accreditation Day (WAD) and World Standards Day (WSD) Forum 2018 earlier this July gathered experts around the world for a valuable exchange.**

Earlier this month, the highly anticipated WMD, WAD and WSD Forum 2018 was held at Marco Polo Hongkong Hotel. The forum, jointly organised by the Hong Kong Council for Testing and Certification; the Government Laboratory; the Hong Kong Accreditation Service; the Standards and Calibration Laboratory, and the Product Standards Information Bureau of the Innovation and Technology Commission, invited top experts in the metrology, accreditation and standardisation to share their insights.



■ **Prof. Joachim Hermann Ullrich, President of the Consultative Committee for Units of the International Committee of Weights and Measures (CIPM) of the Metre Convention**

Metrology, accreditation, and standardisation are the three fundamental pillars of quality infrastructure. They work hand in hand to protect public interests, enhance consumers' confidence in goods and services, foster innovation and competitiveness, and facilitate communications among different parties.

The themes of the three World Days this year are: WMD-Constant Evolution of the International System of Units; WAD-Accreditation: Delivering a Safer World; and WSD- International Standards and the Fourth Industrial Revolution.

Prof. Joachim Hermann Ullrich, President of the Consultative Committee for Units of the International Committee of Weights and Measures (CIPM) of the Metre Convention, shed light on 'The Revised International System of Units: Creating the Future'.

"The redefined International System of units, the SI, promotes continuity, harmonization and stability for the future," says Prof.



■ **Mr. Jon Murthy, Chairperson of the ILAC Marketing and Communications Committee and IAF Communications and Marketing Committee**



(From left to right) Mr YAN Yui-ken, Head of Laboratory of the Standards and Calibration Laboratory of the Innovation and Technology Commission; Dr. Della Sin Wai-mei, Government Chemist of the Government Laboratory; Mr. Adrian Goh; Prof. Joachim Hermann Ullrich; Mr. Ivan Lee Kwok-bun, Deputy Commissioner for Innovation and Technology; Mr. Jon Murthy; Prof. Albert Yu Cheung-hoi, Chairman of the Hong Kong Council for Testing and Certification; Ms. Bella Ho Shiu-wun, the Executive Administrator (Hong Kong Accreditation Service) of the Innovation and Technology Commission; and Dr. Fung Wai-hong

Ullrich. "It guarantees long-term stability of the units in the SI. All units then can be realized everywhere with ever-increasing accuracy as technology proceeds, thus triggering innovation in industry, technology and science."

Mr. Jon Murthy, Chairperson of the ILAC Marketing and Communications Committee and IAF Communications and Marketing Committee, investigated the value of accreditation and conformity assessment activities on public health and safety.

"Businesses are facing increasing commercial and regulatory pressures to assess and control hazards and risks from their operations," says Mr. Murthy. "Whether it is regarding food, consumer products or transport, accreditation provides the framework for assuring that goods and services are safe and the environment we live in is secure."



■ **Mr. Adrian Goh, Director of ISO Regional Engagement Initiative - Asia**

Mr. Adrian Goh, Director of ISO Regional Engagement Initiative- Asia, expounded 'Standards and the Fourth Industrial Revolution'. "Standards will play a key role in the transition to the Fourth Industrial Revolution, where the traditional boundaries among the physical, digital and biological worlds are blurring," says Mr. Goh. "A key role of standards is to ensure interoperability. Devices need to be built using the same rules and the same communication protocols and exchanging data in compatible formats for all this to work."

Mr. Cheung Kin-lung, Senior Manager of MTR Corporation Limited, made a presentation entitled 'Big Data in Railway Asset Management'. "To optimise operation, data-driven decisions



■ **Mr. Cheung Kin-lung, Senior Manager of MTR Corporation Limited**

are crucial," says Mr. Cheung. "Big data plays a role in areas ranging from data collection via instrumentation to analytics and application in various types of railway assets."

Last but not least, Dr. Fung Wai-hong, Senior Chemist of the Government Laboratory, introduced 'The Role of Metrology in Chemistry in the Upholding of Public Safety'. "Measurement underpins the welfare of a modern society and touches almost every part of our daily lives," says Dr. Fung. "Chemical measurements play a significant role in the upholding of public health and safety, and metrology in chemistry ensures the reliability of chemical measurement results."



■ **Dr. Fung Wai-hong, Senior Chemist of the Government Laboratory**