

Technical Seminar on IAQ and Energy Saving

Activity Report by Winnie Lo / Ir K F Yee / Andy Bell

Some 300 engineers from the Energy Institute and supporting Engineering Institutions in Hong Kong and Macau attended an absorbing series of presentations centred around Indoor Air Quality (IAQ) and Energy Saving on 29 July 2017. The half-day Technical Seminar was jointly organised by The Energy Institute Hong Kong (EIHK) and The Ability R&D Energy Research Centre of City University of Hong Kong with support from the Association of Energy Engineers (Hong Kong Chapter), the Hong Kong Association of Energy Engineers and ASHRAE-HK Chapter.



Full house of participants

On behalf of the Organising Committee (OC), Ir Paul Lee, Chairman of EIHK, delivered a welcoming speech and presented souvenirs to Ir Michael Sung, Dr. H.F. Chan and Ir Colin Chung representing ASHRAE-HK Chapter, Association of Energy Engineers (Hong Kong Chapter) and Hong Kong Association of Energy Engineer (HKAEE) respectively.



Ir Michael Sung, representative from ASHRAE-HK Chapter, received the souvenir



Dr. H.F. Chan, representative from the Association of Energy Engineers (Hong Kong Chapter), received the souvenir



Ir Colin Chung, representatives from the Association of Energy Engineers (HK Chapter), received the souvenir

The Moderator of the Seminar, Ir K F Yee who is the Vice Chairman of EIHK, also received a souvenir from Ir Paul Lee. Then, the Director of Ability R&D Energy Research Centre, Prof. Michael Leung, presented souvenirs to the Guest Speakers to thank them for their valuable time and efforts in making the seminar a success.



Ir K F Yee, Moderator of the Seminar, received the souvenir

The five presentations covered different and yet complimentary aspects of energy and air quality management which are very topical for engineers in this region.

Mr Peter Beale, Director of International Marketing, Sterilaire, USA, presented the first paper and described a new and novel method for cleaning and maintaining the cleanliness of condenser and evaporator coils which often become coated with biofilm in normal service. It has been found that UVC light is particularly effective in breaking down the biofilm and this has the benefit of not only maintaining the coils in good condition to ensure optimum heat transfer, but also prevents microbes entering the airstream and creating a health hazard.



Mr Peter Beale, received the souvenir

Mr Tomas Podgurski, Director of Engineering, Royal Services, USA, presented a technical paper explaining to participants the many different configurations which are possible with VAV and at the same time passing on the benefits of his knowledge and experience with regards to maximizing the energy saving potential available by good design, configuration and control.



Mr Tomas Podgurski, received the souvenir

Dr Vivien Lu, Associate Professor, Department of Building Services, The Hong Kong Polytechnic University (PolyU), presented an award winning nano-coating for glass window and cladding panels which she and her team have developed at PolyU. This coating enables a significant reduction in solar gain through the glass whilst maximizing transparency and has the added benefit of a self-cleaning action. She went on to explain how her team is still developing the material and making it suitable for large scale production



Dr Vivien Lu, received the souvenir

Ir Eric Lau, Executive Manager, Property Facilities Management, The Hong Kong Jockey Club, presented an illuminating paper which explained the process used to set up an effective energy management team for the Jockey Club. His team currently run a number of projects each year to continuously reduce the energy consumed across all the many Jockey Club facilities in Hong Kong.



Ir Eric Lau, received the souvenir

Ir Jimmy Lam, Assistant Director (Building Services and Systems), Estates Office, Hong Kong Baptist University (HKBU), provided a fascinating insight into the development of an holistic energy culture which

he and his team have developed and fostered right across the university encompassing the whole community of students and staff. This has proved very successful and has enabled the implementation of many energy conservation strategies which are well supported throughout the university campus.

The seminar ended with a question-and-answer session with the speakers where participants actively exchanged their views and opinions on the topics.



Ir Jimmy Lam, received the souvenir



Group photo of OC Members of all Organizers and Guest Speakers

(L to R) Ir Jimmy Lam, Mr Peter Beale, Ir Eric Lau, Mr Tomas Podgurski , Ir Paul Lee, Ir K F Yee, Ir Paul Kwong, Prof. Michael Leung, Dr. H.F. Chan, Ir Richard Chan, Ir Michael Sung, Mr Andy Bell, Ir Colin Chung, Ms Winnie Lo