

Researcher from Department of Mechanical Engineering/Engineering Science Programme wins WSSET Innovation Awards 2016

Associate Professor Chua Kian Jon Ernest was conferred the WSSET (World Society for Sustainable Energy Technology) Innovation Awards under the theme on Energy Efficiency on 21 July 2016. He received the award at the 15th International Conference on Sustainable Energy Technologies (SET 2016), held from 19 to 22 July 2016 in Singapore. His research, carried out at Mechanical Engineering Department, relates to the development of a hybrid membrane composite-desiccant air dehumidification system has been successfully applied to the treatment of latent load due to humid air. This HVAC (Heating Ventilation Air-Conditioning) technology can be further extended to confined spaces and mobile applications, where removing moisture from moist air is essential and critical for good indoor air quality, human comfort and sustainable operation of delicate equipment such as field hospitals, armoured personnel carriers and operation decks of navy ships, aircrafts, etc. The research has recently led to three patent filings and more than ten publications in peer-reviewed journals.

The WSSET Innovation Awards recognise the achievements of private individuals and organisations in new sustainable technologies and encourage the wider application of these new developments.

