



3<sup>rd</sup> International Symposium on  
**E**nergy **C**hallenges & **M**echanics  
- towards a big picture

7-9 July 2015  
Aberdeen, Scotland, UK

### Principal Speaker of the

## 3<sup>RD</sup> INTERNATIONAL SYMPOSIUM ON ENERGY CHALLENGES AND MECHANICS



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Prof. Chung received his PhD from State U of NY at Buffalo (USA). He had worked for US industries for 15 years before joining NUS in 1995. He has produced 55 PhD students, published 1 book, 18 book chapters, 70 patents and patent applications, 560 journal papers and 350 conference papers. He is a Subject Editor of CHERD (Chem Eng Research and Design) and editorial board members of 20 journals including J. Membrane Science, AIChE J., I & EC

Research, Separation and Purification Reviews, Chemical Engineering J., Chemical Engineering and Technology, Polymer Engineering and Science, J., Applied Polymer Science, and others. Prof. Chung research focuses on membranes for clean water, clean energy, and CO<sub>2</sub> capture. Novel membranes for purification of natural gas and hydrogen, and CO<sub>2</sub> capture have been developed. Breakthroughs on high performance forward osmosis, pressure retarded osmosis and membrane distillation membranes for clean water and osmotic energy have been demonstrated. In 2005-2008, he worked as a Senior Consultant for Hyflux, led and built its membrane research team. He was a co-inventor of Hyflux Kristal™ 600 ultrafiltration membranes which commercialized worldwide. He received IES (Institution of Engineers, Singapore) Prestigious Engineering Achievement Award, and Hyflux - SNIC (Singapore National Institute of Chemistry) Award in Environmental Chemistry, and IChemE (Institution of Chemical Engineers, UK) in Singapore Awards in Sustainability in 2010. He was appointed as Provost's Chair and received Research Leadership Award at NUS in 2011. He became a Fellow in the Academy of Engineering Singapore in 2012.

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