

Half Day Seminar on Hydrogen Economy from the Perspective of an Engineer

SPEAKERS

**PROFESSOR DATO' IR. DR.
WAN RAMLI WAN DAUD**



TS. DR. LIM KEAN LONG



18 MARCH 2023, SATURDAY



9.00 AM – 1.00 PM



**MALAKOFF AUDITORIUM,
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SYNOPSIS

The hydrogen economy is rapidly growing and it is becoming increasingly clear that there is a growing demand for engineers to help bring this technology to the forefront of the energy industry. Engineers have a unique role to play in the development of technologies for hydrogen production, storage, transportation, and utilization. These technologies require a multi-disciplinary approach that combines the principles of chemical, mechanical, electrical, civil, and materials engineering.

With the increasing focus on the need to reduce greenhouse gas emissions and shift to a more sustainable energy future, there is a growing need for engineers who can help design, develop, and implement new technologies that can meet the growing demand for hydrogen. In addition, engineers can play a role in the development of policies and regulations related to the hydrogen economy, which will be crucial in driving the adoption of these technologies and ensuring their safe and effective implementation. The hydrogen economy presents a huge opportunity for engineers to make a significant impact on the transition to a more sustainable energy future and it is clear that there will be a growing demand for engineers in this field in the coming years.

SPEAKERS' PROFILE

Professor Dato' Ir. Dr. Wan Ramli Wan Daud FASc is the Professor of Chemical Engineering at the Department of Chemical Engineering, Faculty of Engineering, Universiti Malaya, since April 2022. Prior to this, Professor Wan Ramli served at Universiti Kebangsaan Malaysia since 1996, as Principal Research Fellow at the Fuel Cell Institute, Universiti Kebangsaan Malaysia since 2006 and as Professor of Sustainable Hydrogen Energy at the Fuel Cell Institute, Universiti Kebangsaan Malaysia since 2019.

He is the Founding Director of the Fuel Cell Institute, Universiti Kebangsaan Malaysia, from 2007-2013. He is also the founding President of the Malaysian Association of Hydrogen Energy (MAHE). He was elected a Fellow of the Academy of Sciences Malaysia in 2012 for his leading role in scientific work on hydrogen energy and fuel cells. Professor Wan Ramli was honoured with the Merdeka Award 2016 for Outstanding Scholastic Achievement for his research and development in advancing fuel cells and hydrogen energy technology in Malaysia, the region, and the world. He is cited in WOS 12,874 times with H-index 58, and in SCOPUS 14,590 times with H-index 62. He was listed as one of the World's Most Influential Scientific Minds in engineering since 2015 by Thomson Reuters and 2017 onwards by Clarivate Analytics for having the highest number of highly cited papers.

Ts. Dr. Lim Kean Long is a research fellow and senior lecturer at the Fuel Cell Institute at Universiti Kebangsaan Malaysia (UKM) since 2008, from where he received his Bachelor of Chemical Engineering (Hons) in 2007 and Master of Chemical Engineering in 2008. He continued his studies and earned his Ph.D. in Materials Science and Engineering from the University of New South Wales in Australia in 2014. His research interests center on energy storage materials and technologies, advanced energy materials, and the integration and optimization of the biomass supply chain. He has collaborated with national and international researchers from Australia, Japan, China, Taiwan, and the United Kingdom, leading numerous national and university research projects and participating in several international research projects related to hydrogen energy. He has also published his research in international peer-reviewed journals and has been involved in drafting technical codes for hydrogen storage and safety under the Malaysian Communications and Multimedia Commission. In recognition of his expertise and achievements, Dr. Lim was appointed as a Subject Matter Expert for the Task Force of the Preliminary Study MyNet Zero Emission Roadmap 2050 (Transportation and Mobility group) by the Academy of Sciences Malaysia.