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Technical Talks on "Hydrogen - The Future Fuel"

2 August 2014 (Saturday)

The Energy Institute (Hong Kong), the Ability R&D Energy Research Centre of City University of Hong Kong, the Association of Energy Engineers (Hong Kong Chapter) and the Hong Kong Association of Energy Engineers jointly organize a half-day **Technical Talks on "Hydrogen – The Future Fuel"** on 2 August 2014 (Saturday) for their members. Others interested in the event are also welcome.

About the Event

Using fossil fuels as the primary energy source has led to serious energy crisis as well as environmental pollution. They also emit greenhouse gas and cause global warming and climate change. In order to mitigate the above problems, it is of paramount importance to develop clean, renewable energy sources, especially solar energy and wind power at competitive costs resulting from the fast technological development. The limitations of solar and wind power are site-specific, intermittent and, thus, not reliable for instantaneous supply. To better harness renewable energy, hydrogen has been identified as a potential alternative fuel as well as an energy carrier for the future energy supply. Hydrogen is clean and, in practice, it can be produced from water, which is abundant. Hydrogen is also renewable when it is produced from renewable energy sources. When it is converted into useful energy in the form of electricity via a fuel cell, the by-product is harmless water vapor. As a result, hydrogen energy is indeed an ideal energy carrier in the future. In these technical talks, various aspects of hydrogen fuel, from production, applications to safety operation will be discussed.

Moderator

- **Ir Colin Chung**, Immediate Past President, Hong Kong Association of Energy Engineers / Past Chairman, Energy Institute Hong Kong

Speakers

- **Prof Vladimir Molkov**[#], Professor of Fire Safety Science, Built Environment Research Institute
- Ir Dr HF Chan, Honorary Advisor, Energy Institute Hong Kong
- Ir Dr Michael Leung, Past Chairman, Energy Institute Hong Kong / Associate Professor and Associate Dean, School of Energy and Environment, City University of Hong Kong

Time & Date:	0910 - 1230;	Venue:	LT-17 (Academic 1), City University of Hong					
	2 August 2014 (Saturday)		Kong, Tat Chee Avenue, Kowloon Tong					
Fee:	Free of charge	CPD:	e-CPD attendance attendees	certificates	will	be	issued	to
Language:	English							

Registration: Please register on-line through http://goo.gl/OeA5zD (copy this link and paste on the browser should it cannot be linked directly) on or before 25 July 2014.



Tentative Rundown:

0910 - 0930	Registration		
0930 - 0935	Welcoming Notes - Ir Gary Chiang, Chairman, Energy Institute Hong Kong		
0935- 0940	Souvenir Presentation		
Moderator: Ir Colin Chung, Immediate Past President, Hong Kong Association of Energy Engineers / Past Chairman, Energy Institute Hong Kong			
0940 - 1030	Hydrogen Safety Engineering: State of the Art and Future Tasks - Prof Vladimir Molkov, Professor of Fire Safety Science, Built Environment Research Institute		
1030 - 1105	Hydrogen Production and Storage - the Current Trends- Ir Dr HF Chan, Honorary Advisor, Energy Institute Hong Kong		
1105 - 1125	Tea Break		
1125 - 1200	Fuel Cell for Sustainable Energy Supply - Ir Dr Michael Leung, Past Chairman, Energy Institute Hong Kong / Associate Professor and Associate Dean, School of Energy and Environment, City University o Hong Kong		
1200 - 1230	Q&A		
1230	End of Event		

Prof Vladimir Molkov is a physicist graduate from Moscow Institute of Physics and Technology in 1977. He has PhD degree in Chemical Physics, including Physics of Combustion and Explosion, and DSc degree in Fire and Explosion Safety. Head the Department of Fire Safety in Buildings and Fire Modelling at All-Russian Research Institute for Fire Protection until 1999. Since 1999 he is Professor of Fire Safety Science at the University of Ulster. Since 2004 he is specializing in hydrogen safety. In 2007 he initiated the establishment of the World's first MSc course in Hydrogen Safety Engineering at Ulster. In 2008 he established and leads the HySAFER (Hydrogen Safety Engineering and Research) Centre at the University of Ulster with internationally recognised research and education activities. The thrust in research is on modelling and large eddy simulations of hydrogen releases and dispersion, including high pressure under-expanded jets, spontaneous ignition of sudden releases, jet fires, deflagrations and detonations at large scales, innovative hydrogen mitigation technologies and strategies. Prof Molkov has coordinated and participated in major European projects related to hydrogen safety. He is a Visiting Professor at Karlsruhe Institute of Technology (Germany). Since 2013 he represents UK as an expert in ISO TC/197 "Hydrogen technologies".