

PUBLIC LECTURE ANNOUNCEMENT

MINERALS, METALS AND MATERIALS TECHNOLOGY CENTRE (M3TC)
FACULTY OF ENGINEERING
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We are organising a series of public lectures that highlight some of the research activities of M3TC

TOPIC	BIO-ALCOHOLS - TECHNICAL AND ECONOMIC ASPECTS
SPEAKER	Prof. Wladyslaw KAMINSKI, PhD, D.Sc.
CHAired BY	Prof Arun Sadashiv Mujumdar (Centre Director, M3TC)
DATE	Monday 16th November
TIME	11am to 12 noon
VENUE	EA-06-02, Faculty of Engineering, National University of Singapore <u>NUS Campus Map & NUS: Faculty of Engineering</u>

Please register via email: m3tc@nus.edu.sg

SYNOPSIS

Main objectives of the present environmental policy include reduction of energy consumption and development renewable energy sources including energy production from biomass, wind, geothermal, water and solar energy. Renewable energy sources enable both improvement of environmental protection and are an important element of sustainable development. According to the experts programs of the World Committee of Energy Council, it is predicted that in 2070 the contribution of renewable energy to the total world energy balance will be about 60%. Due to high-energy values, ethanol and butanol are the most promising future biofuel. However there are some technical and economic problems to be solved. Source of raw material, efficient transformation to alcohol and separation and purification of product these are keys problem to be considered. Ethanol and butanol are totally different products in terms of production technology, purification and economics. On the basis of personal experience the problem mentioned above will be discussed. The raw materials, technology of separation and purification, energy efficiency etc will be presented and discussed. Application of pervaporation, vapour permeation and ionic liquids will also be included.

About the Speaker

Prof. W.Kaminski completed his M.Sc. in both Chemical Engineering and Applied Mathematics and Ph.D. and D.Sc. in Chemical & Process Engineering in Poland. Now he is employed at Technical University of Lodz, Faculty of Process and Environmental Engineering, Poland as Professor and Vice Dean(Research). His scientific interest comprises: membrane separation processes, renewable energy sources, ionic liquids and artificial intelligence. He is author or co-author of 276 journal papers, 4 books and 14 book chapters as well as 7 patents.

All Are Welcome. Admission is Free

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