



Faculty Seminar Series

The Faculty of Engineering continues to organize a series of seminars in 2010-2011 to encourage cross-disciplinary exchange among departments and encourage synergism among researchers.

Research and development of wind turbine technologies for harnessing wind energy

Date: December 13, 2010 (Monday)

Time: 12:30 pm - 1:30 pm

Venue: Theatre B, Chow Yei Ching Building, HKU

Speaker: Professor Dennis Y C Leung

Department of Mechanical Engineering

The University of Hong Kong

Abstract:

Extensive reliance on the use of fossil fuels in the past several decades has created intense air pollution and climate change problems to our society that endangers the sustainability of human. Global warming and climate change is no longer a prediction that is subjected to debate, but a fact that is accepted by most scientists and governments. Renewable energy is considered to be one of the best solutions to alleviate the above problems. Conventional renewable energy includes hydro, solar, wind, geothermal and biomass. Among the different forms of renewable energy wind energy is the one that has been extensively developed in recent years. In this seminar, the current status of various forms of renewable energies will be reviewed. Particular emphasis will be put on the new development in wind power technologies in the world. The limitation of wind turbine technologies will be discussed and a number of innovative micro wind turbines that can harness wind energy in various urban environments will be introduced and discussed.

Speaker:

Professor Dennis Leung received his BSc (Eng) in 1982 and PhD in 1988, both from the Department of Mechanical Engineering at the University of Hong Kong. After serving in power industry for 5 years, he joined HKU in 1993 as a lecturer in the Department of Mechanical Engineering. Prof Leung is currently a Professor of the department specializing in air pollution, renewable energy and energy conservation. He has published more than 300 articles including 150+ peer reviewed journal papers. Prof Leung is a chartered engineer, a fellow of IMechE, Energy Institute and the Hong Kong Institute of Acoustics. He is also the Past Chairman of the Institute of Energy (HK Branch), and an editorial board member of the International Journal of Applied Energy and Journal of Global Environmental Engineering. Please click on the following link for a full biography:

http://engg.hku.hk/pdf/d_leung.pdf

All teaching/research staff and students are welcome.