CPD Seminar organized by Department of BSE – "ECF Project Report On Environmental Payback Time Analysis Of Building-Integrated Photovoltaics (BIPV) Applications In Hong Kong"

By Dr. Lin Lu, Ir Professor Hongxing Yang and Mr Jinqing Peng on 25 July 2011

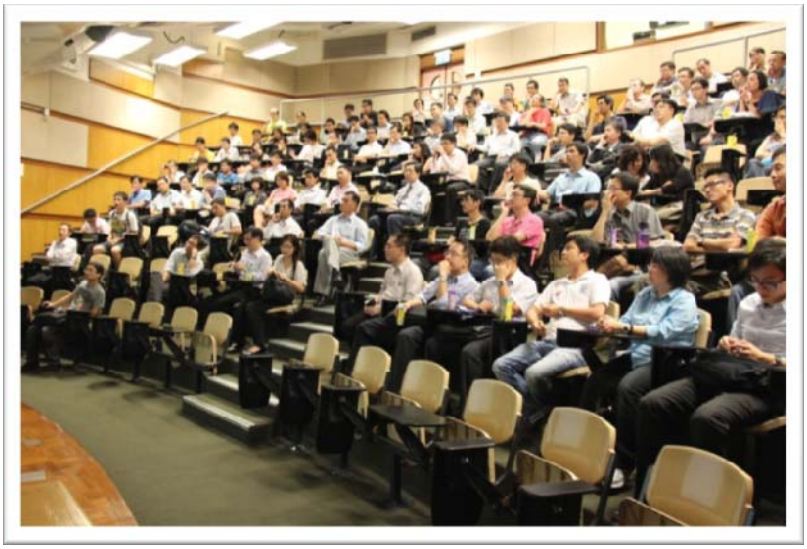
An 1-hour CPD seminar conducted by Dr. Lin Lu, Ir Prof. Hongxing Yang and Mr Jinqing Peng of the Department of Building Services Engineering, HKPOLYU, was held on 25 July. It consisted of a ECF project report on the environmental payback time analysis of Building-Integrated Photovoltaics (BIPV) applications in Hong Kong.

From left to right: Dr. Lin Lu, Ir Prof. Hongxing Yang and Mr Jinqing Peng

Dr. Lin Lu received her Ph.D. degree in Renewable Energy field from The Hong Kong Polytechnic University in 2004 and joined our department as Assistant Professor in 2006.

Ir Prof Hongxing Yang has worked in R&D of solar photovoltaics for many years in Hong Kong, specializing in solar photovoltaic integration in buildings (BIPV) and solar cell studies. The professor currently leads the scientific research and consultancy Renewable Energy Research Group (RERG) in our university.

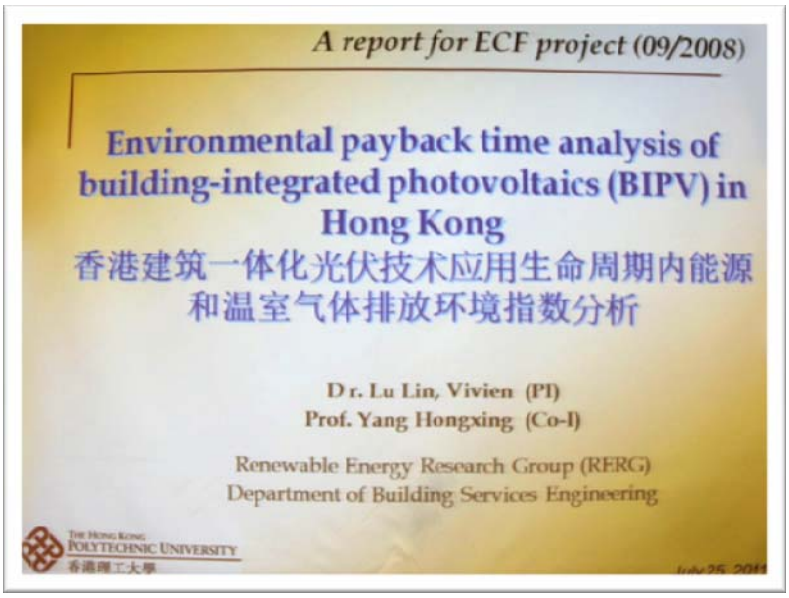
Mr. Jinqing Peng is a PhD student in our department.



Thoughtful audience

In the seminar the three speakers reported and discussed the summarized findings of their ECF project (No.9/2008). The project's mission lied in discovering the environmental impacts of Building-Integrated Photovoltaics (BIPV) applications. The study is of high practical importance in that it maps out a thorough method of measurement to gauge the energy performance, environmental impact and sustainability of solar photovoltaic power systems in Hong Kong, which contributes towards practical and beneficial energy conservation strategy planning.

A software package named as BIPV-EPBT was also presented and demonstrated as a user-friendly tool for calculation of PV systems' energy output performance, and for environmental indicators such as energy payback time (EPBT), greenhouse gases payback time (GPBT) and life cycle energy requirement.



Demonstration slide used during the seminar

The highly innovative and inspiring speeches leave the audience with in-depth information and a broad insight into practical evaluation of energy conservation strategic planning in solar PV systems.

The speakers would like to acknowledge the Environmental Protection Deaprtment (EPD) for their generous and consistent financial support.

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