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The Hong Kong Young Academy of Sciences
(YASHK) talk series

Talk Series on Emerging Technologies – Science, Opportunities and Challenges 2023: The Solar Energy Solutions Towards Carbon Neutrality in Hong Kong

Prof. YIP Hin Lap, Angus
Professor

Department of Materials Science and Engineering and School of Energy
and Environmental Science, City University of Hong Kong



Application Deadline

27 March 2023

12:00 noon

Intended Learning Outcomes

Upon completion of the programme, participants should be able to understand:

1. learn about the background and main drivers of renewable energy;
2. figure out the working principles of solar photovoltaic (PV) cells;
3. determine the latest PV technologies and their potential integration with buildings and other community facilities;
4. address the challenges and opportunities for solar energy development in Hong Kong.



◆ Introduction

Hong Kong government has set an ambitious goal of reaching carbon neutrality by 2050, and a critical strategy in its overall planning is to increase the deployment of renewable solar energy. In this talk, the speaker will discuss how we can rely on technological innovation to tackle this grand challenge; particularly, we have identified a new generation of printable, flexible, transparent, and colour-tunable solar cells as the most prominent photovoltaic technology to promote solar energy deployment in Hong Kong. Such a new generation solar cell technology can be integrated as tinted solar windows, facades, or curtains with buildings to generate significantly more solar electricity in an urban city, which usually has limited lands and rooftops for installing conventional silicon solar panels.

The speaker, Prof. YIP Hin-Lap, Angus is a Professor at the Department of Materials Science and Engineering and School of Energy and Environment at City University of Hong Kong. He is the associate director of Hong Kong Institute for Clean Energy. His research focuses on understanding the structure-property relationships, device physics and photophysics, device design and optimization of 1) organic solar cells, 2) perovskite solar cells and 3) perovskite light-emitting devices(LEDs).

"Talk Series on Emerging Technologies – Science, Opportunities and Challenges 2023: The Solar Energy Solutions Towards Carbon Neutrality in Hong Kong" is co-organised by YASHK and HKAGE and supported by the Education Bureau. It is one of the activities in HK SciFest 2023 and a significant event in the scientific sector of Hong Kong.

◆ Schedule

Session	Date	Time	Venue
1	1 April 2023 (Sat)	2:00 p.m. – 3:30 p.m.	Online via Zoom Meeting

◆ Target Participants

- S1 – S6 students in 2022/23 school year only.
- Class size: 100
- * First-come-first-served.

◆ Medium of Instruction

Cantonese

◆ Certificate

E-Certificate will be awarded to participants who have attended the talk.

This talk is one of the items in the four domains of the Holistic Talk Series. The objective is to facilitate the all-round development of student' gifted potential.



The Hong Kong Young Academy of Sciences (YASHK) talk series

Talks are about emerging technology to inspire students' motivation in pursuing knowledge in specialized areas.



Celebrities Talk Series

Celebrities share their life-changing moments to enhance students' aspirations for life.



Academic Introductory Talk Series

Introduce trendy topics to widen the students' horizons.



Future Insight Talk Series

Professionals explain the latest trend in their industry to give students an insight to plan their future.

