

## BEC Institute of Environmental Education 環境教育學院



# Technical Seminar on Latest Development of Air Purification Technologies

1.5hour Credits

Mandatory CPD Credit for BEAM Pro & BEAM Affiliate

Friday, 18 August 2017 3:30 pm - 5:00 pm

BEC Auditorium, Jockey Club Environmental Building, 77 Tat Chee Avenue, Kowloon Tong

Air pollution has been one of the most significant environmental issues in Hong Kong. According to the Hedley Index, poor air quality caused nearly 100,000 hospital bed-days and 1,500 premature deaths locally in 2016. To tackle the alarming problem, it is necessary to continue in researching effective air-purification technologies. BEAM Plus also places emphasis on air cleaning and purification (e.g. such requirements are included in IEQ4 and related to IEQ P1 of BEAM Plus NB).

The seminar aims to share the latest development and application of air purification technologies. One of the tutors of this Seminar, Dr Tin Lau, is now working for Nano and Advanced Materials Institute Limited, a Research and Development Centre which has been dedicated to developing indoor and ambient air purification technologies such as PhotoCatalytic Oxidation (PCO), plasma Driven Catalysis (PDC), microalgae photobioreactor and nanofiber. A demonstration unit of the Centre's technologies, the microalgae photobioreactor treatment unit for carbon dioxide consumption, oxygen generation and biomass production, is displaying at the Information Centre of Hong Kong – Macau – Zhuhai Bridge in Tung Chung.

# **Speakers**



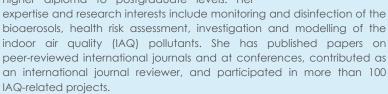
**Dr Tin Y T LAU** *Ph.D.*Technical Manager,
Nano and Advanced Materials Institute Limited

After obtaining his Ph.D. in Chemical and Biomolecular Engineering from The Hong Kong University of Science and Technology, Dr. Tin LAU joined Nano and Advanced Materials Institute Limited

(NAMI) to pursue his interest in applied research. He has over 9 years of R&D experience, including development of air and water purification technology, waste recycling technology, nanomization, bioengineering, process development, product design, and quality assurance of production process, etc.

# Dr Veronica CHAN PhD, MPhil, BSc (Hons), BEAM Pro, MASHRAE Specialist - Green Building & IAQ Business Environment Council

Dr Chan has over 14 years of experience in environmental-related research, consultancy, and training at different levels ranging from higher diploma to postgraduate levels. Her





# Topics to be covered

- Air quality problem in Hong Kong
- Highlights of advanced air purification technologies for air pollutants (such as NOx, VOC, CO2, PM, etc.)
  - > Photocatalytic oxidation (PCO)
  - > Plasma-Driven Catalysis (PDC)
  - > Microalgae
  - > Nanofiber
- How to integrate them for commercialisation
- Case sharing

# **Event Details and Registration**

#### Programme

3:00 pm - 3:30 pm Registration 3:30 pm - 5:00 pm Seminar

### Registration

Deadline 18 August 2017 noon or Full capacity

Website

http://www.hkgbc.org.hk/eng/events/20170818-MCPD.aspx

#### Fee

\$300 (BEC Members or HKGBC Members)

\$450 (Others)

# **Enquiries**

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