THE HONG KONG INSTITUTION OF ENGINEERS
香港工程師學會

Environmental Division
環境分部

The HKIE Environmental Division Annual Forum



Developing Intelligent Resource Preservation Strategies for Hong Kong: Challenges for Innovation and Sustainability

27 April 2018
Crowne Plaza Hong Kong Kowloon East,
3 Tong Tak Street, Tseung Kwan O, Hong Kong

THE HONG KONG INSTITUTION OF ENGINEERS
香港工程師學會

Environmental Division
環境分部

The HKIE Environmental Division Annual Forum 2018

"Developing Intelligent Resource Preservation Strategies for Hong Kong: Challenges for Innovation and Sustainability"

Friday, 27 April 2018
Crowne Plaza Hong Kong Kowloon East,
3 Tong Tak Street, Tseung Kwan O, Hong Kong

(3-minute walk from the Tseung Kwan O MTR Station, Exit C)

INTRODUCTION

Global adverse environmental burden and drastic depletion of resources induced by intensive consumption, heavy pollution and climate changes have led to the identification of waste as a valuable resource that requires responsible and sustainable solutions for managing and recovering. Accordingly, the holistic concepts of "zero waste", "circular economy", "cradle-to-cradle", "closed loops" and ''resource recovery'' have emerged worldwide over the last decade as part of a cultural shift and a new way of thinking about the age-old problem of waste and the economic obsession with endless growth and consumption.

In Hong Kong, the Government, in collaboration with key stakeholders, is actively promoting the development of waste reduction and recovery with various initiatives and major environmental programmes and infrastructure investments, in particular, the waste-to-energy programme, and public consultation on the transfer of advanced technologies for waste recycling and recovery strategic plans. Regulations, incentives and funding supports with continuous professional skills improvement schemes are also being establishing to stimulate the development of resource preservation in Hong Kong against resource-intensive economy.

It is therefore timely for HKIE Environmental Division to promote the discussion on the intelligent resource preservation strategies in Hong Kong by bringing together various stakeholders. The main objective is to inspire, empower, and inform professional bodies, public and all stakeholders on emerging innovative waves in resource preservation intelligence, and to mobilize practical knowledge and know-how for dealing with cross-cutting and challenging issues.

The forum comprises the keynote session and three other sessions: I) Legislation and Policy Reforms as Potential Drivers for Resource Preservation; II) Driving Green Alternatives for Sustainable Resource Management; and III) Embracing Emerging Sustainable Approaches for Managing Specific Resources.

SUPPORTING ORGANIZATIONS

Academic

CityU 香港城市大學 City University of Hong Kong 專業 創新 胸懷全球 Professional·Creative For The World
能源及環境學院 SCHOOL OF ENERGY AND ENVIRONMENT

香港大學 THE UNIVERSITY OF HONG KONG
Department of Civil Engineering

香港公開大學 THE OPEN UNIVERSITY OF HONG KONG
School of Science and Technology

Thei
Member of VTC Group
VTC 機構成員

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學
FACULTY OF CONSTRUCTION AND ENVIRONMENT
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
建設及環境學院
土木及環境工程學系

School of Life Sciences The Chinese University of Hong Kong 生命科學學院

CEES Centre for Education in Environmental Sustainability 可持續發展教育中心

香港科技大學 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
Department of Civil & Environmental Engineering

Asian ENERGY STUDIES CENTRE

珠海學院 CHU HAI COLLEGE OF HIGHER EDUCATION

Non-academic

Environment Bureau
The Government of the Hong Kong Special Administrative Region

CONSULATE GENERAL OF FINLAND HONG KONG & MACAO

HKGCC Hong Kong General Chamber of Commerce 香港總商會1861

香港中華總商會 CGCC The Chinese General Chamber of Commerce, Hong Kong

french chamber HONG KONG

AIIB Asian Institute of Intelligent Buildings

CIWEM Hong Kong Branch
30th Anniversary
1987 - 2017

EMAHK 香港環境管理協會

HKAEE 香港能源工程師學會 Hong Kong Association of Energy Engineers

HKGBC 香港綠色建築議會

HKIQEP 香港環專會

IOM3 The Institute of Materials, Minerals and Mining HONG KONG BRANCH

soe engineering success soe hong kong region 香港工程師學會 香港分會

PROUD TO SUPPORT GREAT BRITAIN & NORTHERN IRELAND

Kingdom of the Netherlands

The British Chamber of Commerce in Hong Kong 香港英商會

香港中華廠商聯合會 The Chinese Manufacturers' Association of Hong Kong

New Zealand Chamber of Commerce in Hong Kong

25th Anniversary BUSINESS ENVIRONMENT COUNCIL 商界環保協會

可持續發展委員會 Council for Sustainable Development

地球之友 friends of the earth

香港建造商會 HKCA

HKGSA
Hong Kong Green Strategy Alliance

HKSTP 香港科技園

Hong Kong Branch
Institution of MECHANICAL ENGINEERS

Canada

New Zealand Consulate-General

The Canadian Chamber of Commerce in Hong Kong
La Chambre de Commerce Canadienne à Hong Kong 香港加拿大商會

香港工業總會 FHKI Federation of Hong Kong Industries

ASHRAE Hong Kong Chapter

CSCE HKB
Canadian Society for Civil Engineering Hong Kong Branch

ENGINEERS AUSTRALIA Hong Kong Chapter

GREEN COUNCIL 環保促進會

Hong Kong Environmental Industry Association 香港環保產業協會

Hong Kong Institute of Environmental Impact Assessment 香港環境影響評估學會

HKWMA
HONG KONG WASTE MANAGEMENT ASSOCIATION 香港廢物管理學會

AIR CONDITIONING AND REFRIGERATION ASSOCIATION HONG KONG

SPONSOR

Gold

ATAL Engineering Ltd
安樂工程有限公司

香港賽馬會
The Hong Kong Jockey Club
同心同步同進 RIDING HIGH TOGETHER

港燈
HK Electric

JEC 怡和機器
Jardine Engineering Corporation

Silver

xylem
Let's Solve Water

Bronze

ALLIED SUSTAINABILITY AND ENVIRONMENTAL CONSULTANTS GROUP LIMITED
沛然環保顧問有限公司

嘉榮行工程有限公司
CAREWIN
ENGINEERING LTD.

CLP 中電

DUNWELL
GROUP
正昌環保科技(集團)有限公司
Dunwell Enviro-Tech (Holdings) Ltd.

MTR

力霸水泵
SUPERPOWER
(SINCE 1977)
Reliability

煤氣
Towngas

市區重建局
URBAN RENEWAL AUTHORITY

盈電
REC

wsp

ORGANIZING COMMITTEE

Chairman: Ir CHAN, Thomas C T

Members:

Ir TANG, Kelvin
Ir Dr CHAN, Raymond K L
Ir CHOI, C M
Ir IP, Tat Yan
Ir LAM, C F
Ir LEE, Vincent
Mr LEE, Patrick
Ir Professor LO, Irene
Ir Dr MA, Anthony
Ir SIN, Calvin
Ir Dr ZHOU, Shelley
Mr LAM, Benjamin
Ir AU, Elvis
Ir CHENG, Norman
Ir Dr GBAGUIDI, Alex
Ir KWAN, Anthony
Ir LAM, Chi Sing
Ir LEE, Ping Kuen
Ir LEUNG, C F
Ir LO, P C
Ir Professor SHIH, Kaimin
Ir WONG, Alex
Ms CHAN, Jacqueline
Ms YU, Emily

GUEST OF HONOUR

- Mr WONG Kam-sing, GBS, JP
  Secretary for the Environment, Environment Bureau, The Government of the HKSAR

OPENING ADDRESS

- Ir Thomas KC CHAN
  President, The Hong Kong Institution of Engineers

KEYNOTE ADDRESS

- **Rethinking our Waste Management Policies**
  Ir Dr the Hon LO Wai-kwok, SBS, MH, JP
  Legislative Councillor (Engineering Functional Constituency), HKSAR
- **Policy Instruments to Achieve Progress towards Resource Efficiency in Taiwan**
  Dr Harvey HOUNG, Board Director, The Institute of Environment & Resource, Taiwan

INVITED SPEAKERS

- **中華人民共和國環境保護部 土壤司副巡視員 周志強先生**
- **Innovative Approach of Resource Utilization – Real Example in Hong Kong & China**
  Ir Professor Daniel M CHENG, BBS, MH, JP
  Managing Director, Dunwell Enviro-Tech (Holdings) Ltd
- **Waste Management at HKIA: The Story of the "Three Multiples"**
  Mr Mike KILBURN, Assistant General Manager – Sustainability, Airport Authority Hong Kong
- **E-Waste – The Global Problem – The Hong Kong Solution**
  Mr Nigel MATTRAVERS
  Director & General Manager, ALBA Integrated Waste Solutions (Hong Kong) Ltd
- **Hong Kong Recycling Industry - A time to Change**
  Professor Jonathan WONG, Department of Biology, Hong Kong Baptist University
- **Paper Recycling and Recovery: Technological Approach and Challenges**
  Mr Harold YIP, Executive Director, Secure Information Disposal Services Ltd

FORUM VENUE

Crowne Plaza Hong Kong Kowloon East,
3 Tong Tak Street, Tseung Kwan O, Hong Kong

(3-minute walk from the Tseung Kwan O MTR Station, Exit C)



Transportation information:

From	Time (min)	By
Hong Kong International Airport	45	Car
Sky100 at International Commerce Centre (ICC)	35	Car
Central	25	Car
Sai Kung Town	20	Car
Hong Kong Convention & Exhibition Centre	20	Car
Hong Kong University of Science and Technology	15	Car
Quarry Bay, North Point, Taikoo Shing, Kwun Tong	10 - 15	MTR
East Point City Shopping Mall	3	MTR
Park Central Shopping Mall	1	Walk

REGISTRATION FORM

The HKIE Environmental Division Annual Forum 2018

"Developing Intelligent Resource Preservation Strategies for Hong Kong: Challenges for Innovation and Sustainability"

Friday, 27 April 2018 (9:00am – 5:00pm)
Crowne Plaza Hong Kong Kowloon East, 3 Tong Tak Street, Tseung Kwan O, Hong Kong

Name : (Ir/Prof/Dr/Mr/Ms) _____
(First Name) (Surname)

Company : _____ Position: _____

Tel : _____ Email : _____

	Registration Fee	Registration (please "√" as appropriate)
Early-Bird Registration **(on or before 27 Mar 2018)**	Members of The HKIE and Supporting Organizations : $900	( )
	Non-Members : $980	( )
Full Registration **(after 27 Mar 2018)**	Members of The HKIE and Supporting Organizations : $980	( )
	Non-Members : $1,180	( )
* HKIE Graduate Members	$500	( )

Remarks :

- The fee includes a copy of Forum proceedings, a lunch and two coffee breaks.
- * Seats are limited to 50 (first-come-first-served). A copy of HKIE Membership Card must be presented together with the registration form.
- Cancellation will be accepted only in writing via email or fax, no later than two weeks before the function commences, and only 50% of registration fee will be refunded.

Payment :

I enclose a crossed cheque no _____ for the amount of HK$_____ payable to **"The HKIE Environmental Division"**.

Please complete the form and return it together with appropriate payment to the Forum Secretariat,

c/o Centre for Research & Professional Development

Room A-E 23/F Billion Plaza 2, 10 Cheung Yue Street, Kowloon, Hong Kong
Tel : 2796 1638 ; Fax : 3016 8648; Email : info@crpd-hk.com
Event website: http://ev.hkie.org.hk/ OR https://sites.google.com/site/hkieevd2018/

The HKIE Environmental Division Annual Forum 2018

"Developing Intelligent Resource Preservation Strategies for Hong Kong: Challenges for Innovation and Sustainability"

Friday, 27 April 2018

Crowne Plaza Hong Kong Kowloon East, 3 Tong Tak Street, Tseung Kwan O, Hong Kong

PROGRAMME

8:45 - 9:05am	*Registration*
9:05 - 9:10am	Welcome Remarks Ir Thomas CT CHAN, Chairman of the Organizing Committee
9:10 - 9:15am	Opening Address Ir Thomas CHAN Kwok-cheung, President, The Hong Kong Institution of Engineers
9:15 - 9:45am	Keynote Address Mr WONG Kam-sing, GBS, JP, Secretary for the Environment, Environment Bureau, The Government of the HKSAR
9:45 - 10:15am	Keynote Address: Rethinking our Waste Management Policies Ir Dr Hon LO Wai-kwok, SBS, MH, JP Legislative Councillor (Engineering Functional Constituency), HKSAR
10:15 - 10:45am	Keynote Address: Policy Instruments to Achieve Progress towards Resource Efficiency in Taiwan Dr Harvey J HOUNG, Board Director, The Institute of Environment & Resource, Taiwan
10:45 -11:10am	*Coffee Break*
Session I: Chaired by Ir Norman CHENG, Deputy Chairman, The HKIE Environmental Division Legislation and Policy Reforms as Potential Drivers for Resource Preservation	
11:10- 11:35am	固體廢物環境管理 Environmental Management of Solid Wastes 中華人民共和國環境保護部 土壤司副巡視員 周志強先生 (This presentation will be conducted in Mandarin)
11:35 – 12:00pm	Dutch Experiences in Closing Value Chain Loops Ms Anne te VELDE, Counsellor Infrastructure and Environment, Ministry of Infrastructure and Water Management in the Netherlands
12:00 - 12:25pm	Hong Kong Recycling Industry - A time to Change Professor Jonathan WONG, Professor, Department of Biology, Hong Kong Baptist University
12:25 - 12:45pm	Discussion
12:45 - 2:00pm	*Luncheon*
Session II: Chaired by Ir Professor Kaimin SHIH, Co-opted Member, The HKIE Environmental Division Driving Green Alternatives for Sustainable Resource Management	
2:00 - 2:25pm	Innovative Approach of Resource Utilization – Real Example in Hong Kong & China Ir Professor Daniel M CHENG, BBS, MH, JP Managing Director, Dunwell Technology (Holdings) Ltd
2:25 - 2:50pm	Waste Management at HKIA: The Story of the "Three Multiples" Mr Mike KILBURN, Assistant General Manager - Sustainability, Airport Authority Hong Kong
2:50 - 3:10pm	Discussion
3:10 - 3:35pm	*Coffee Break*

Session III: Chaired by Ir Dr Anthony MA, Co-opted Member, The HKIE Environmental Division Embracing Emerging Sustainable Approaches for Managing Specific Resources	
3:35 - 3:45pm	*Souvenir Presentation Ceremony (Sponsors)*
3:45 - 4:10pm	E-Waste – The Global Problem – The Hong Kong Solution Mr Nigel MATTRAVERS, Director & General Manager ALBA Integrated Waste Solutions (Hong Kong) Ltd
4:10 - 4:35pm	Paper Recycling and Recovery: Technological Approach and Challenges Mr Harold YIP, Executive Director, Secure Information Disposal Services Ltd
4:35 – 4:55pm	Discussion
4:55 - 5:00pm	*Closing Remarks* Ir Kelvin TANG, Chairman, The HKIE Environmental Division