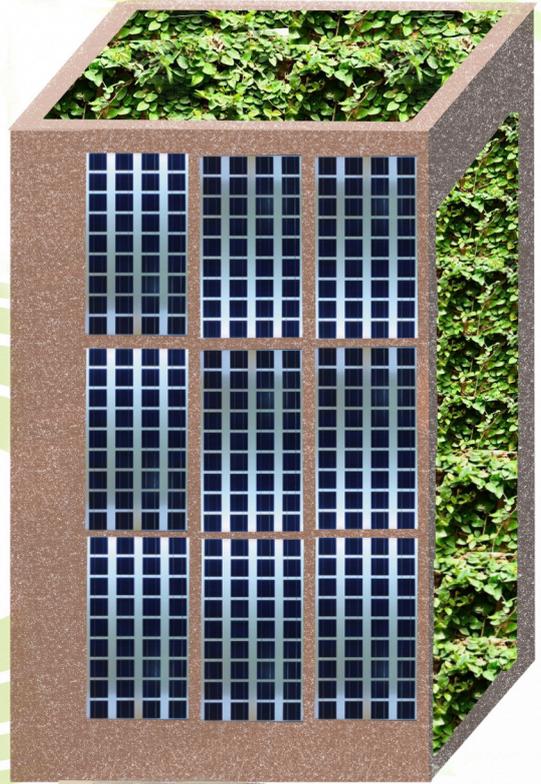


# ANNUAL SEMINAR

Green Building & Construction Materials  
Challenges for Innovation and Excellence

22 March 2013, HKCEC  
PROCEEDINGS



HK  E

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

Environmental Division  
環境分部

## The HKIE Environmental Division Annual Seminar

### “Green Building and Construction Materials - Challenges for Innovation and Excellence”

22 March 2013 (Friday) 9:00am – 5:30pm

Theatre II, Hong Kong Convention & Exhibition Centre

1 Expo Drive, Wanchai, Hong Kong

### Theme

There are over 40,000 buildings in Hong Kong. Green building refers to a structure using processes or products that are both environmentally responsible and resource-efficient throughout a building's life-cycle: from design, construction, operation and maintenance, to demolition. While building techniques and construction materials have been changed in the past several decades to become more energy efficient, many innovations for making buildings green are also friendly to our planet as well.

This Annual Seminar aims to provide a platform for practising engineers, academics, managers and other professionals to share their valuable experiences and views on adopting doable approaches to deal with challenges for innovation and excellence. Through these approaches, everyone can increase the comfort, safety, and efficiency of our buildings without putting undue stress on our natural resources while minimizing pollution and protecting the environment.

### Registration Fee

**Early-bird registration (on or before 22 Feb 2013):**

Members of The HKIE and Supporting Organisations : HK\$550; Non-Members : \$700;

**Full registration (after 22 Feb 2013):**

Members of The HKIE and Supporting Organisations : HK\$700; Non-Members : \$850

HKIE Graduate Members : HK\$350 (Seats are limited to 50, first-come-first-served basis. A copy of HKIE Membership Card must be presented together with the registration form).

The fee includes a copy of seminar proceedings and coffee breaks. Lunch is not included.

### Registration & Enquiries

Please complete the registration below and return it together with appropriate payment by a crossed cheque made payable to “The HKIE Environmental Division”, to the Seminar Secretariat, c/o Centre for Research & Professional Development, 7/F Sun Kwong Industrial Building, 1059-1061 Tung Chau West Street, Kowloon, Hong Kong. A week before the function starts, an E-letter of confirmation which contains the receipt of payment, and details of the function will be sent to you.

For details or enquiries, please visit the event's website:

<http://sites.google.com/site/evdas2013/home> or Centre for Research and Professional Development's (CRPD) website: <http://www.crpd-hk.com/>. For enquiries, please contact the Seminar Secretariat, Ms May Ho of CRPD, at Tel: 2796 1638 or Email: [info@crpd-hk.com](mailto:info@crpd-hk.com).

### Cancellation Policy

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.

## Programme

### *Morning Session*

#### *Opening & Keynote Session*

##### **Welcome Remarks**

Ir Professor Irene LO, Chairman of the Organising Committee

##### **Opening Address**

Ir Professor KK CHOY, President, The Hong Kong Institution of Engineers

##### **Keynote Address**

Mr WONG Kam Sing, JP, Secretary for the Environment, Environment Bureau, The Government of the HKSAR

##### **Keynote Address**

Ir Dr Hon W K LO, BBS, MH, JP, Member (Engineering Functional Constituency), Legislative Council, HKSAR

#### *Section I - Generic Green Building Standards and Case Studies*

*Chaired by Ir CW TSO, Council Member, The Hong Kong Institution of Engineers*

BEAM Plus (Materials Aspects) – Hong Kong's Green Building Labelling Scheme for Promoting Sustainable Use of Materials In Construction

Ir Professor CS POON, Materials Aspects Panel Chair & Green Building Faculty, Hong Kong Green Building Council

Comparison of Different Green Building Standards in HK/USA/China/ Singapore

Ir Colin CHUNG Chi-Leong, Executive Director of Parsons Brinckerhoff Asia Ltd

Cream of BEAM Plus - A General Case Review of Green Buildings

Professor John NG, Director, Hong Kong Green Building Council and Director and Vice-chairman, BEAM Society Ltd

#### **Lunch (not included)**

### *Afternoon Session*

#### *Section II-Green Construction Materials*

##### *II-1 Green Purchasing and Material Testing & Certification*

*Chaired by Ir PK LEE, Honorary Secretary, The HKIE Environmental Division*

Green Procurement for Construction Materials: Case Study on Steel

Ir Shirlee ALGIRE, Group Sustainability & CSR Manager, Gammon Construction Ltd

Low-Carbon Construction Materials

Mr Nick LEWIS, Director, Business Development, Engineering, HSE & Sustainability, K.Wah Construction Materials

Green-related Testing, Inspection and Certification for Construction Materials and Buildings

Mr John HUNG Leung-bun, Secretary-General (Testing and Certification)

Innovation and Technology Commission, The Government of the HKSAR

#### *Section II-Green Construction Materials*

##### *II-2 Green Labelling and Carbon Footprint of Construction Materials*

*Chaired by Ir TY IP, Deputy Chairman, The HKIE Environmental Division*

Is Labelling the Way Forward to Delineate Green Construction Materials?

Professor Thomas NG, Professor, Department of Civil Engineering, The University of Hong Kong

Carbon Footprint Measurement of Construction Materials Using Life Cycle Assessment

Professor Jack CHENG, Assistant Professor

Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology

Application of Green Construction Materials / Products – A Contractor's Viewpoint

Ir Dr Gary CHOU, Assistant General Manager (Technical)

Chun Wo Construction & Engineering Co Ltd

#### **Closing Remarks**

Ir Kenny WONG, Chairman, The HKIE Environmental Division

## Remarks

- The official language of the seminar is English.
- The seminar is designed for 1 CPD day ; Attendance certificate will be provided after the seminar.

## Supporting Organisations

- BEAM Society
- Business Environment Council
- Construction Industry Council
- Council for Sustainable Development
- Green Council
- Environment Bureau, The Government of the HKSAR
- Hong Kong Construction Association
- Hong Kong Green Building Council
- Hong Kong Green Strategy Alliance
- Professional Green Building Council
- The Real Estate Developers Association of Hong Kong

## List of Sponsors

- Alliance Construction Materials Ltd
- Kum Shing Group
- MTR Corporation Ltd
- The Hongkong Electric Co Ltd
- Chun Wo Development Holdings Ltd
- Hong Kong Housing Society
- Keppel Seghers Hong Kong Ltd
- The Hong Kong Jockey Club

## Registration Form

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"Green Building and Construction Materials - Challenges for Innovation and Excellence"

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Theatre II, Hong Kong Convention & Exhibition Centre  
1 Expo Drive, Wanchai, Hong Kong

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

Company : \_\_\_\_\_ Position: \_\_\_\_\_

Tel : \_\_\_\_\_ Email : \_\_\_\_\_

### Registration:

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* HKIE Graduate Members	\$350	( )

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### Payment :

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

Date : \_\_\_\_\_

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

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Tel : 2796 1638 ; Fax : 2104 0052 ; Email : info@crpd-hk.com