Sponsoring Organizations:

PRODUCERS CONCRETE













MITSUBISHI ELECTRIC











Supporting Organizations:



CONSTRUCTION INDUSTRY COUNCIL 建造業議會







Hong Kong Institution of Certified Auditors 香港專業審核師學會



Nano and Advanced Materials Institute Limited







MOSTEC 20

in Engineering Conference Materials Science and lechnologu







☐ HK\$1,100 (for Materials Engineering Graduates under Scheme A)

Enrolment fee includes Conference Materials, Tea Breaks, Lunches, and Conference Dinner on 25 June 2015

CPD certificate will be provided after the conference

☐ HK\$1,500 (Early bird registration before 15 May 2015)

☐ **HK\$1,800** (2 days)

Organizer



Materials Division 材料分部

MaSTEC 2015



Materials Science and Technology Frontiers of Sustainable Materials in Engineering Conference

Registration Form

English Name: (lr/Prof/Dr/Mr/Mrs/Ms)	S
((will be the same to be printed in CPD Certificate
Chinese Name:	
Company:	
Position:	
Mailing Address:	
Phone:	
Fax:	
Mobile:	
Email:	
(please provide email address for receiving confirmation)	confirmation)
☐ HKIE Member Memb	Membership No.:
□ Non Member	
Enrolment Fee for Conference	
Please tick one box	

Registration & Enquiries

address with cheque payable to "HKIE-MATERIALS DIVISION"

MaSTEC 2015 Conference Secretariat For registration, please send completed registration form to the following

PO Box # 79010 Mongkok Post Office, Kowloor

Enquiries: Ms Lai, Conference Secretary (Tel) 2789 2389 / (Fax) 2789 2390 / (Email) mastec2015@gmail.com



Background

change, efficiency and sustainability into almost every renovation of traditional materials bringing innovation, empowered by both the evolution of new materials and our living standards over recent decades has been as they develop, so do we. The exciting progress in aspect of our society. Materials are a large part of our everyday lives and

of greenhouse gas emission in manufacturing. saving, construction of infrastructure, and management specific applications including energy harvesting and examples of materials evolution or renovation show At the frontier of sustainable development, leading how diverse materials can be optimized and utilized for

cutting edge in existing or potential applications. local experts across materials engineering and science development of sustainable materials, as well as their to actively discuss the latest advances in research and The purpose of this conference is to assemble world and

Theme

Materials and topics for discussions include: The theme of MaSTEC 2015 is Frontiers of Sustainable

- Emerging Materials and Technologies for Sustainable Construction and Repairs
- **Energy-efficient Materials and Technologies**
- **Environmental Sustainability Assessment of Materials**

Who should attend?

authorities, consultants, contractors and materials Engineers and professionals from Government, public

and public and private research institutions. Academics, scientists and graduates from universities,



Conference Programme

Day 1 (24 June 2015 | 09:00-17:00)

Emerging Materials and Technologies for Sustainable Construction and Repairs

Welcome Speech

Chairman, Organizing Committee of MaSTEC 2015 Ir Dr WK FUNG

Opening Speech

Ms Ada FUNG, JP

Deputy Director, Hong Kong Housing Department, HKSAR

Keynote Speech

BCA's Roadmap on Sustainable Concrete Construction

Mr Keat Chuan CHEW

Group Director, Building Engineering Group, Building and Construction Authority, Singapore

An Innovative Method of Recycling Fresh Concrete Waste

Ir Prof CS POON

Hong Kong Polytechnic University

Green Materials based on Alkali Activation Technology for the Sustainable Development for the Construction Industry

Ir Raymond WAN, Dr Garrison CHAU and Ir Dr PL NG Optimix (Hong Kong) Limited

Nano and Advanced Materials Institute Ltd.

The Future Towards Intelligent Concrete Admixture

Dr Nguyen Van CHANH

HCM City University of Technology, Vietnam

Accelerated and In-situ Tests on Concrete Protection Coating Systems for Hong Kong Sewage Installations

Mr Ka Shing CHAU, Mr Siu Yuen CHAN, Dr Ricky YC TSUI and Ir Prof Lawrence CM WU

Dove Arup and Partners Hong Kong Ltd. City University of Hong Kong

From Planar to Volumetric Precast in Housing Authority Projects Ir Prof Joseph MAK

Chief Structural Engineer (retired), Hong Kong Housing Department, HKSAR

Bridges, Tunnels and a Lot of Concrete - Designed to Last 120 Years or More Crossing the Bosphorus in Istanbul:

Prof Yilmaz AKKAYA

stanbul Technical University, Turkey

Sustainable Development of Ready-mixed Concrete in Hong Kong Mr KM CHAN, Mr Kenneth MAK, Mr Casey CHAN and

Concrete Producers Association of Hong Kong Ltd. Ir Billy CHEEMA

Thermal and Acoustic Insulation Performance Studies of Foamed Concrete

Nano and Advanced Materials Institute Ltd.



Conference Programme

Day 2 (25 June 2015 | 09:00-17:00)

Energy-efficient Materials and Technologies

Keynote Speech

Green Material Application in BEAM Plus Green Building Rating Scheme

Chairperson and "1st Vice Chairperson, BEAM Society Ltd Prof John NG^a and Ir Dr Raymond YAU

The Development of CLP's Pulverized Fuel Ash (PFA) in Hong Kong Mr Edward CHOW

China Light and Power Company Ltd.

Mystery of Sustainable Heat Exchanger Material Mr Masanobu SUZUKI

Overseas Engineering Section Manager, Mitsubishi Electric Nakatsugawa Works, Japan

Feasibility Study of Carbon Dioxide Capture on Functionalized Grapane Sheets Dr Yanjun XIAO, Dr Zhigang DENG and Ir Prof Lawrence CM WU City University of Hong Kong

A New Perspective on the Use of Phase-change Material in Buildings Dr Ben YB CHAN

Hong Kong University of Science and Technology

Environmental Sustainability Assessment of Materials

Keynote Speech

Topic to be announced Mr Kesson LEE

Secretary General, Hong Kong Council for Testing and Certification, HKSAR

Embodied Carbon of Concrete /

Ir Julian LEE, Ir Prof Siu-Lai CHAN and Mr Han YU Steel – Building Structures Using Nonlinear Optimisation

Construction Industry Council, Hong Kong Hong Kong Polytechnic University

Sustainable and Energy Saving Coating Materials

Mr Shinji NISHIDA SK Kaken Co Ltd., Japan

The Development of Photovoltaics/Phase Change Composite Walls System Dr Hongzhi CUI

College of Civil Engineering, Shenzhen University, China

Ir Stan CHEESMAN

Closing Speech

Chairman, Materials Division, HKIE