Sponsoring Organizations:





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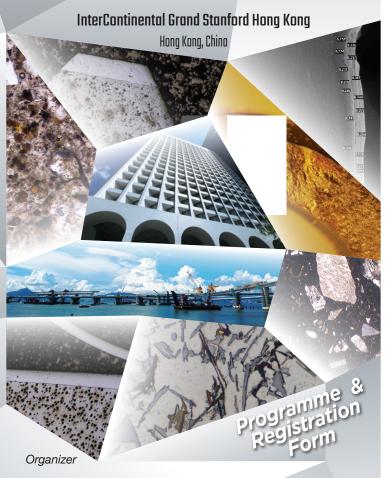
Department of Materials Science and Engineering, City University of Hong Kong



Materials Science and Technology in Engineering Conference

Revolutionary Materials

19-20 October 2017





Materials Division 材料分部





Materials Science and Technology in Engineering Conference

Revolutionary Materials

Registration Form

English Name: (Ir/Prof/Dr/Mr.	/Mrs/Ms)
	(will be the same to be printed in CPD Certificate)
Chinese Name:	
Company:	
-	
Fax:	
Mobile:	
Email:	
(please provide email address for re	
☐ HKIE Member	Membership No.:
□ Non Member	
Enrolment Fee for Confere	nce
Please tick appropriate box(es)	
☐ HK\$2,200 (standard rate)	
☐ HK\$1,950 (early bird regis	stration before 1 Sept 2017)
☐ HK\$1,500 (graduate memb	oers under HKIE scheme A and full time students)
	- >

- ☐ **HK\$700** (optional banquet)
- Enrolment fee includes Conference Materials, Tea Breaks and Lunches.
- Optional Banquet Dinner will be held on 20 October 2017
- CPD certificate will be provided after the conference

Registration & Enquiries

For registration, please send completed registration form to the following address with cheque payable to "HKIE-MATERIALS DIVISION"

> MaSTEC 2017 Conference Secretariat PO Box # 79010

Mongkok Post Office, Kowloon Enquiries: Ms Irene So / Mr Eric Lee

(Tel) 2789 2389 / (Fax) 2789 2390 /

(Email) Mastec2017@hotmail.com



Background

Our world is all about materials. Advances in materials science are the driving forces for innovation in industries. New materials and material technologies bring about innovative designs and new features into products which upgrade our living standards. Developing new products and technologies that add comfort, convenience, safety and sustainability to our daily lives are the main objectives of today's engineers and industrialists.

To achieve these goals, we must strive to enhance the performance of traditional materials, as well as to develop new and revolutionary materials that can meet the demands of the future and bring about innovation, efficiency and sustainability.

The purpose of this Conference is to assemble overseas and local experts to promulgate the latest advances in research and development of new and revolutionary materials, as well as their cutting edge in existing or potential applications.

Theme

The two-day conference programme will include plenary keynote lectures and topics of interest including, but not limited to, the following:

- Concrete, cementitious materials and steels
- Glass and ceramic materials
- Fire protection materials and coatings
- Nanomaterials, photoelectrical materials and other materials and applications

Who should attend?

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

Academics, scientists and students from tertiary and research institutions.



Conference Programme

Day 1 - Revolutionary Materials

(09:00-17:00, 19 October 2017)

Welcome Speech

Ir Dr WK FUNG

Chairman, Organising Committee of MaSTEC 2017

Opening Speech

Ir Dr Ming Fong HUI

Assistant Director of Buildings, Buildings Department, HKSAR Government, Hong Kong, China

Kevnote speech

Material Genome Enable Research and Development Revolution

Prof Hong WANG

State Key Laboratory of Green Building Materials, China Building Materials Academy, Beijing, China

The Future Battery for Electric Vehicles

Ir Dr Jonathan CY CHUNG

City University of Hong Kong, Hong Kong, China

Advance in Applications of Glass in Modern Constructions

Ir Dr Eric CH LIM

Safety Accident & Failure Experts Ltd, Hong Kong, China

Transformation of Waste into Sustainable Concrete Material in MTR Shatin Central Link Project

Ir Clement YK NGAI and Ir Charles CS PANG

MTR Corporation Ltd, Hong Kong, China

Sulphoaluminate Cement Based Application

Dr Stefano ALLEVI

Italcementi Italy, Heidelberg Cement Group, Italy

Kevnote speech

Research and Applications of Ultra-high Performance Concrete

Prof Jiaping LIU

Southeast University, Nanjing, China

Effects of Micro-silica and Nano-silica on Fresh and Hardened Properties of Mortar

Ir Prof Albert KH KWAN

University of Hong Kong, Hong Kong, China

Nano Engineered Ultra-high Performance Concrete: The Basis for a Family of Advanced Concrete Products

Ir Peter W WEBER

ceEntek Pte Ltd, Singapore

Nano-foam, Lighter and Stronger Material for Tomorrow's Green Buildings

Dr Tomi NISSINEN

Nano and Advanced Materials Institute Ltd, Hong Kong, China

Application of the Anti-microbial Properties of Nano-photocatalyst to Combat Hygienic and Environmental Nuisance

Mr Kenji TAKEI¹ and Ir Dr Jamie SK YEUNG²

¹Souki Incorporation, Japan and ²Score Holdings Ltd, Hong Kong, China



Conference Programme

Day 2 - Leading Technologies

(9:00-17:00, 20 October 2017)

Keynote Speech

Advanced Precast Technology in Japan

Prof Yuii ISHIKAWA

University of Tokyo, Tokyo, Japan

Research and Development on Taiwan New Reinforced Concrete Project and Bond Behaviours of High Strength Threaded Bar

Dr Ker Chun LIN

National Centre for Research on Earthquake Engineering (NCREE), National Applied Research Laboratories (NARLabs), Taiwan, China

Behaviour of Jute FRP Tube Encased Recycled Aggregate Concrete

Prof Liang HUANG

Hunan University, Changsha, China

High-fiber Slabs: Extended Joint Spacing

Ir Su Hung CHIN

Forta Corp, USA

Applications of Epoxy Adhesives in Civil Engineering

Dr Ren SHAN and Dr Bo PENG

Hunan Goodbond Construction Technic Development Co Ltd, Changsha, China

Extending the Service Life of Concrete Structures from a Scientific and Holistic Point of View

Prof Weizu QIN

Tsinghua University, Beijing, China

State of the Art Admixture for Improving Concrete Rheology

Ir Kiat Huat SEOW

BASF Construction Chemicals (China) Co, Ltd, Shanghai, China

Alkali-aggregate Reactivity Research of River Sand for Concrete in Macau

Mr David Ker Chiun TSENG

The Macau Laboratory of Civil Engineering (LECM), Macau, China

Assessment of Harmful Clay in Aggregate and the Newly Innovative Clay Mitigation Technology

Dr Jiabiao JIANG

GCP (Singapore) Pte Ltd, Singapore

Review of Passive Fire Protection Materials Adopted in Hong Kong

Ir Prof Yuk Lung WONG

Chu Hai College of Higher Education, Hong Kong, China

A Pseudo-ductile Hybrid PVA/PET Fiber Reinforced Cementitious Composite for Waterproofing Applications

Ir Prof Christopher KY LEUNG and Dr Jing YU

Hong Kong University of Science and Technology, Hong Kong, China

Closing Speech

Ir Prof Joseph Yiu Wing MAK

Materials Division, Hong Kong Institution of Engineers, Hong Kong, China