

Annual One-day Symposium



GREEN MATERIAL RESOURCES FOR SUSTAINABLE CONSTRUCTION INDUSTRY

■ Co-organised by







■ Symposium Details

Date: 26 June 2018 (Tuesday)

Time: 9:00-17:10 (Registration starts at 8:30 am)

Venue: Room N002, Block N, The Hong Kong Polytechnic University

Language: English

■ Supporting Organizations

ice | **hong kong**







香港廢物管理學會 Hong Kong Waste Management Association





■ Enquiry

Dr. Songye ZHU, t: 3400 3964 Dr. Zhen LENG, t: 2766 6007

Email: ascehk@ust.hk

Certificate

One-day CPD certificate will be issued.







HIGHLIGHTS OF SYMPOSIUM

- Approach and challenges for managing huge volumes of inert construction waste
- Application of recycled PET fibers as a low-cost and green constituent of pseudo-ductile cementitious composites
- Upcycling of wastes into sustainable pavement material
- Application of fire resisting wall blocks, repair mortar, recycled aggregates in construction industry
- Eco-friendly paving blocks
- Green construction materials and their characterization

INVITED SPEAKERS

- Ir. Prof. C.S. POON, The Hong Kong Polytechnic University
- Ir. Peter MOK, Fill Management Division, Civil Engineering and Development Department
- Ir. Prof. Christopher K.Y. LEUNG, Hong Kong University of Science and Technology
- Mr. David PEGG, Ove Arup & Partners Hong Kong Ltd
- Ir. Prof. Kaimin SHIH, The University of Hong Kong
- Dr. Ivan SHAM, Director, Nano & Advanced Materials Institute
- Dr. Zhen LENG, The Hong Kong Polytechnic University
- Mr. Dixon CHAN, Tiostone Environmental Ltd

COURSE FEE

Fee	Eligibility				
HK\$700	Members of ASCE or other supporting organizations; or				
	• Alumni of PolyU or HKU; or				
	• Early-bird registration (payment made on or before 15 June 2018, postmarked); or				
	Group registration (≥4 person)				
HK\$800	Other regular registration				
HK\$300	ASCE Student member				

Fee includes lecture notes, tea/coffee and an attendance certificate. Lunch is not included.

CERTIFICATE

This Symposium is recommended for one CPD day.

ENQUIRY

Dr. Songye ZHU t: 3400 3964 Email:

Dr. Zhen LENG t: 2766 6007 ascehk@ust.hk







PROGRAMME

8:30 – 9:00	Registration				
9:00 – 9:15	Welcoming Address				
9:15 – 9:55	Recycling of Waste Glass in Construction Materials				
	Prof. C S POON, The Hong Kong Polytechnic University				
9:55 – 10:35	Public Fill Management in Hong Kong – Approach and Challenges				
	Ir. Peter MOK, Fill Management Division, Civil Engineering and Development				
	Department				
10:35 – 10:55	Coffee Break				
10:55 – 11:35	Development of Pseudo-ductile Cementitious Composites with Recycled PET				
	Fibers				
	Prof. Christopher K.Y. LEUNG, Hong Kong University of Science and Technology				
11:35 – 12:15	The Urban Bio Loop				
	Mr. David PEGG, Ove Arup & Partners Hong Kong Ltd				
12:15 – 12:20	Souvenir presentation				
12:20 – 14:00	Lunch (not included in registration fee)				
14:00 – 14:40	Mineral Phase Characterizations for Producing Safe and Reliable Green				
	Construction Materials				
	Prof. Kaimin SHIH, The University of Hong Kong				
14:40 – 15:20	Recycling-in-Action: Waste Materials for Buildings and Construction				
	Dr. Ivan ML SHAM, Nano & Advanced Materials Institute (NAMI), Hong Kong				
15:20 – 15:40	Coffee Break				
15:40 – 16:20	Value-Added Application of Waste Plastic Based Additives in Paving Mixtures				
	Containing High Percentage of Reclaimed Asphalt Pavement				
	Dr. Zhen LENG, The Hong Kong Polytechnic University				
16:20 – 17:00	The Application and Commercial Value of Environmentally Friendly				
	Construction Materials in Hong Kong				
	Mr. Dixon CHAN, Tiostone Environmental LTD				
17:00 – 17:10	Closing Remarks and Souvenir Presentation				
17:10	Distribution of CPD Certificates				







ABOUT THE SPEAKERS

Ir. Prof. Chi Sun POON, The Hong Kong Polytechnic University

Ir Prof. Chi Sun Poon is currently Chair Professor of Sustainable Construction Materials and Associate Head of the Department of Civil and Environmental Engineering of The Hong Kong Polytechnic University. He obtained his PhD from Imperial College, London and spent two years as a Research Fellow at Oxford University specializing in cement and concrete research. He now specializes in the teaching and research of construction materials and waste management. His research covers the recycling of construction waste, waste glass, incineration ashes, waste wood and rubber tyres. He pioneered the development of the Eco-block technology for turning wastes into construction materials. His developed recycling technologies have been successfully commercialized and he has been awarded various local, national and international prizes. He has published over 500 papers in international journals and conferences (with >350 journal publications). He served on the Advisory Council on the Environment and the Council for Sustainable Development. He is now a member of the Recycling Fund Advisory Committee. He has been appointed as a Justice of Peace by the Government since 2013. He is also an Editor of Construction and Building Materials.

Ir. Peter MOK, Manager, Chief Engineer, Fill Management Division, Civil Engineering and Development Department, The Government of the Hong Kong Special Administrative Region

Ir Peter MOK is the Chief Engineer/Fill Management of Civil Engineering and Development Department (CEDD), HKSAR Government. He joined the Government upon graduation from the University of Hong Kong in the 1980s. He has worked in the planning and implementation of the developments of Tin Shui Wai, Central Reclamation and Kai Tak. He has also been involved in a series of site formation, infrastructure and dredging projects. Ir MOK is now responsible for the management of public fill and dredged sediment in Hong Kong providing vital services for the construction industry.

Ir. Prof. Christopher K.Y. LEUNG, Hong Kong University of Science and Technology

Dr. Christopher K. Y. Leung is Professor of Civil and Environmental Engineering at the Hong Kong University of Science and Technology. His research interests are in the general area of construction materials, covering fracture mechanics, composite mechanics, fiber optic sensing and the application of composites in civil engineering. Prof. Leung has delivered keynote and plenary lectures at many international conferences around the world. He has received a number of research-related awards including the Best Applied Research Paper Award from ASCE Journal of Composites in Construction, the First Class Award in Natural Sciences from the China Ministry of Education and the Second Class State Natural Science Award from the China State Department. He served as the Honorary President of RILEM (International Union of Laboratories and Experts in Construction Materials, Systems and Structures) in 2011 and is elected Fellow of 6 international institutions/associations. He has also served as Chairman of the HKIE Materials Division and Chair of the HKAS Working Party on Construction Materials.

Dr. Ivan ML SHAM, Director of Research & Development (Construction), Director of Smart Construction Materials Lab (Centre of Excellence), Nano & Advanced Materials Institute (NAMI), Hong Kong

Dr. Ivan Sham is responsible for the strategic technology developments of the sector at NAMI and collaborations with the construction industries and academia. He received his Ph.D. in Mechanical Engineering from the HK University of Science & Technology and MBA from the University of Strathclyde (UK), with major in innovation management. His research interests include advanced fibre reinforced and nanostructured composites materials, concrete materials, surface modifications and finite element analysis. Dr. Sham has 50+ publications in international peer reviewed journals/conferences, 12+ granted patents in US/CN, and 10 local/international awards.







Ir. Prof. Kaimin SHIH, The University of Hong Kong

Ir Professor Kaimin Shih received his Ph.D. and the postdoctoral training at Stanford University. He has been leading an "Environmental Materials" research group in the Department of Civil Engineering at the University of Hong Kong since 2008, and their work is primarily to engineer and employ material properties for innovative environmental and construction applications. Professor Shih is particularly interested in studying the pollutant behavior in solid matrices and at water-mineral interfaces. He has carried out research projects related to waste-to-resources, environmentally-friendly ceramics, metal leaching behavior of construction materials, urban environmental pollutants, and water facility materials. Professor Shih currently also serves as executive committee members in 5 environmental associations, and as an editor and associate editor in 4 peer-reviewed scientific journals. In 2014, he received university's Outstanding Teaching Award for his extraordinary contribution to the environmental engineering education at HKU. Further details about Professor Shih's research activities can be found at http://web.hku.hk/~kshih/.

Mr. David PEGG, Director of Infrastructure, Ove Arup & Partners Hong Kong Ltd

Mr. David Pegg is a Director with Arup who leads the resources team responsible for design and construction of waste treatment facilities. He is an Executive member of the Hong Kong Waste Management Association.

Dr. Zhen LENG, The Hong Kong Polytechnic University

Dr. Zhen Leng is an Associate Professor at The Hong Kong Polytechnic University. His research interests mainly include sustainable pavement materials and technologies, eco-efficiency analysis and life cycle assessment, and nondestructive evaluation of transportation infrastructure. His research projects have been funded by various sources such as the Research Grant Council, Construction Industry Council, Environmental Conservation Fund, Highways Department, and Environmental Protection Department in Hong Kong, and Federal Aviation Administration, Association of American Railroad, and Illinois Department of Transportation in the US. He is currently the Director of the ASCE Hong Kong Section, and the Executive Board Member and Honorary Deputy Treasurer of the Hong Kong Society for Transportation Studies (HKSTS). He also serves as the Associate Editor of the Journal of Cleaner Production and ASCE Journal of Transportation Engineering, Part B: Pavements, and the Editorial Board Member of the International Journal of Road Materials and Pavement Design, and the International Journal of Pavement Research and Technology.

Mr. Dixon CHAN, General Manager, Tiostone Environmental LTD

Mr. Dixon Chan graduated from McMaster University in Ontario, Canada and holds a B. Eng degree and a M. A. Sc. degree. He served as a research associate in Hong Kong Polytechnic University between 2003 and 2006. Dixon Chan is one of the founders and directors of Tiostone Holdings Ltd (THL). THL owns different trading firms and factories across Hong Kong and South East Asia for trading and producing environmentally friendly construction materials to serve the demands of the local construction industry of different regions.







ASCE ONE-DAY SYMPOSIUM

Green Material Resources for Sustainable Construction Industry

26 June 2018, N002, The Hong Kong Polytechnic University

Registration Form

Name:							
	(Last Name)	(First Name)				
Office Te	1.:		Mobile:				
Email:			Company:				
Members (ASCE/F	ship (if applicabl PolyU/HKU/IC	le): E/HKIE/IStructE/H	IKEMA/RISUD/HKISC)				
Members	ship No. (if appl	icable):					
Group R	egistration (plea	ase use separate shee	ets as necessary)				
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- ASCE Hong Kong reserves the right to cancel or reschedule the conference at its discretion

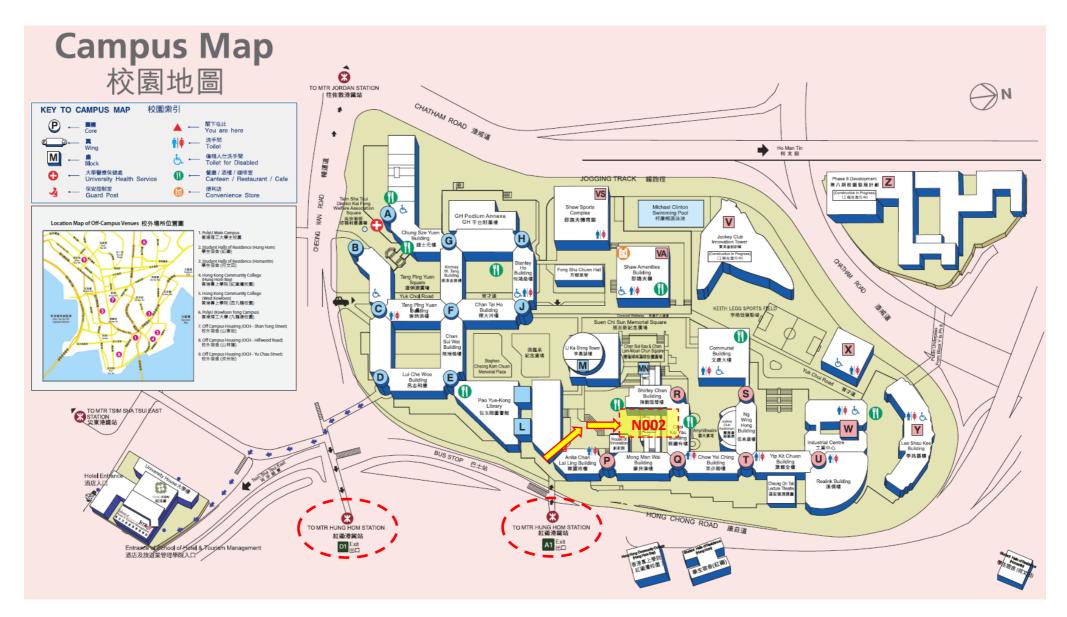
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- Seat will be confirmed when payment is received.

Dr Songye ZHU

Enquiry



Online campus map: http://www.polyu.edu.hk/fmo/eMap/CampusMap.pdf