

Concurrent session 6-1: Materials Physics and Engineering

Friday, July 27, 2018

14:00 – 17:50	Concurrent session 6-1: Materials Physics and Engineering
Venue:	Anthony Lau Building (E4), E4-3062
Chairpersons:	1. Changwen Miao 2. Zongjin Li
14:00 – 14:35	Keynote presentation
	Micromechanical Modeling of Strain Hardening Cementitious Composites Christopher K Leung, The Hong Kong University of Science and Technology. MC: Changwen Miao
14:35 – 15:35	Invited presentations
14:35 – 14:55	The relation of sorptivity and capillary coefficient for water transport in mortar Yunsheng Zhang, Southeast University. MC: Changwen Miao
14:55 – 15:15	Application of embedded piezoelectrc transducers in concrete Dongyu Xu, University of Jinan. MC: Changwen Miao
15:15 – 15:35	How to effectively use graphene oxide to reinforce cementitious composites Zeyu Lu, The Hong Kong University of Science and Technology. MC: Changwen Miao
16:00 – 16:30	Tea/coffee break, poster, discussion
16:30 – 17:50	Invited presentations
16:30 – 16:50	Development of low drying shrinkage foamed concrete Kaitai Wan, Brunel University London. MC: Zongjin Li
16:50 – 17:10	Flaw characterization and correlation with cracking strength in SHCC Cong Lu, Southeast University. MC: Zongjin Li
17:10 – 17:30	Development of structural-functional integrated energy storage concrete with innovative macro-encapsulated PCM Haibin Yang, Shenzhen University. MC: Zongjin Li
17:30 – 17:50	Engineering properties of Pb contaminated clay with nZVI treatment Wanhuan Zhou, University of Macau. MC: Zongjin Li
After 18:00	Banquet Dinner (Hotel: Galaxy Macau, Bus pick-up point & time: E4 G/F Lobby @ 18:00 pm)

Saturday, July 28, 2018

09:00 – 12:00	Concurrent session 6-1: Materials Physics and Engineering
Venue:	Anthony Lau Building (E4), E4-3062
Chairpersons:	1. Guoxing Sun 2. Wanhuan Zhou
09:00 – 09:35	Keynote presentation
	Numerical modeling of hydration and microstructure development of cement-based materials Caijun Shi, Hunan University. MC: Guoxing Sun
09:35 – 10:35	Invited presentations
09:35 – 09:55	Biomimetic superhydrophobic surface of concrete: Topographic and chemical modification by a direct spray method Wei She, Southeast University. MC: Guoxing Sun
09:55 – 10:15	Influence of concrete micro-dispersant on cement hydration Yanfeng Zuo, Institute of Building Materials Technology Information. MC: Guoxing Sun
10:15 – 10:35	Transportation model of calcium silicate hydrate in mesoscale: a molecular dynamic study Ming Sun, The Hong Kong University of Science and Technology. MC: Guoxing Sun
10:35 – 11:00	Tea/coffee break, poster, discussion
11:00 – 12:00	Invited presentations
11:00 – 11:20	Effect of fly ash microsphere on the rheology and microstructure of alkali-activated fly ash/slag pastes Tao Yang, Yancheng Institute of Technology. MC: Wanhuan Zhou
11:20 – 11:40	Fire resistant eco concrete blocks containing waste glass Binmeng Chen, Nano and Advanced Materials Institute Ltd. . MC: Wanhuan Zhou
11:40 – 12:00	Application of nanocomposites in construction materials Guoxing Sun, University of Macau. MC: Wanhuan Zhou
12:00 - 14:00	Buffet Lunch (venue: UM Chao Kuang Piu College, W21-G019)