ReACT2024

The 1st International Conference on Research and Application of Carbonation Technology for Wastes and Concrete

11 - 13 December 2024 The Hong Kong Polytechnic University, Hong Kong

https://events.polyu.edu.hk/ReAct2024/

Important Dates

- End of abstract submission:
- Notification of acceptance of abstracts: .
- Early-bird and presenter registration deadline: •
- Registration deadline for non-presenters:
- Welcome reception:
- Conference:

List of Topics

- (a) Carbonation of solid wastes including recycled concrete wastes, steel slag, red mud, incineration ashes and other alkali wastes, etc.
- (b) CO_2 activation of fresh and hardening concrete
- (c) CO_2 activation of waste powders (e.g. steel slag, recycled cement powder, ashes)
- Integration of waste and CO₂ for construction products (e.g. aggregate and (d)blocks)
- Biomineralisation of waste and concrete (e)
- Direct air carbonation (f)
- (g) Carbonatable binders
- Theory of carbonation (h)
- Life cycle analyses and quantification of CO₂ uptake (i)
- Upscaling and application case studies (i)
- Other advanced mineral carbonation materials and technologies (k)

31 May 2024 31 July 2024 17 June 2024 16 August 2024 1 September 2024 1 October 2024 11 December 2024 12 - 13 December 2024













Conference Chairs

Prof. Chi-sun POON

Director of Research Centre for Resources Engineering towards Carbon Neutrality Chair Professor of Sustainable Construction Materials Head of Department of Civil and Environmental Engineering The Hong Kong Polytechnic University, Hong Kong

Prof. Tung-chai LING Professor College of Civil Engineering Hunan University, China

Keynote Speakers (in alphabetical order of surname)

Dr Warda ASHRAF The University of Texas at Arlington, USA Prof. Liwu MO Nanjing Tech University, China Prof. Takafumi NOGUCHI The University of Tokyo, Japan Prof. Chi-sun POON The Hong Kong Polytechnic University, Hong Kong Prof. Cise UNLUER The University of Manchester, UK Prof. Fazhou WANG Wuhan University of Technology, China Dr Maciej ZAJAC Heidelberg Materials AG, Germany

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