

HKUST Distinguished Civil & Environmental Engineering Workshop
香港科技大學傑出土木與環境工程研討會

**Low-Density Engineered Cementitious Composites Toward
Smart Sustainable Road Infrastructure**

利用高延性輕質復合混凝土推動公路基礎設施的智慧化和可持續發展

Introduction 研討會簡介

This workshop will (1) compare international practices in the design and application of foamed lightweight soil/concrete (FLS/C) for road embankment construction, (2) reflect on the abundant experience in FLS design and application in the Mainland, and (3) share Hong Kong's practical insights in applying the newly developed low-density engineered cementitious composite (LD-ECC), which demonstrates exceptional versatility, strength, ductility, and sustainability. LD-ECC offers significant potential to enhance infrastructure quality, safety, and durability while reducing associated economic, social, and environmental costs. The workshop aims to catalyze innovative research and development toward establishing LD-ECC as a foundational enabling technology for realizing next-generation smart, sustainable road infrastructure.

本研討會將 (1) 比較國際上泡沫輕質土/混凝土的開發與應用實踐, (2) 借鑒內地泡沫輕質土設計與應用的豐富經驗, 並 (3) 分享香港在應用新開發的高延性輕質復合混凝土 (LD-ECC) 方面的實踐洞見。LD-ECC展現出卓越的多功能性、強度、延展性及可持續性, 對提升基礎設施質量、安全和耐久性, 降低相關經濟、社會與環境成本具有顯著潛力。本研討會旨在推動創新研發, 使LD-ECC成為實現下一代智慧可持續道路基礎設施的一項核心賦能技術。



Date 日期:
7 February 2026
2026年2月7日



Time 時間:
2:00 pm – 6:00 pm
下午2:00 – 下午6:00



Venue 地点:
Room 3574, Department of Civil &
Environmental Engineering, HKUST,
Clear Water Bay, Kowloon, Hong Kong

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