



Seminar on Ultra-High-Performance Concrete: Advancing State-of-the-Art Research to Structural Design and Field Applications

29 SEPTEMBER 2025 | 1.30 – 5.30PM | MONASH UNIVERSITY MALAYSIA

Ultra-High-Performance Concrete (UHPC) is a type of special concrete developed to meet the demand for niche applications in the construction industry. It is considered a revolutionary material within the concrete family that has gained reputation and interest due to its excellent mechanical properties in terms of compressive strength, enhanced tensile strength, ductility, and durability characteristics. While research on UHPC and the application of its structural system in practice have been progressing at an accelerated pace, some fundamental knowledge gaps at the material and structural scales remain unexplored. This event will highlight the current state-of-the-art in UHPC research in Malaysia, Taiwan and Korea, and with field applications covering Malaysia, India and China.



DIST PROF CHUNG-CHAN HUNG
National Cheng Kung University,
Taiwan
Development and Applications of
Ultra-High-Performance Concrete in
Taiwan



ADJ A/PROF IR DR YEN-LEI VOO
Dura Technology Sdn Bhd
Case Studies in Sustainability
Performance of UHPC Bridges



DR SHACK YEE HIEW
Yonsei University, Korea
Multi-scale Constitutive Modelling
of Unconfined and Confined UHPC



IR DR LOW HIN FOO
OSD Alliance Sdn Bhd
Mechanical Properties and Design
Fundamentals of UHPC



SCAN TO REGISTER

For further information, please contact us at
m-crinfra@monash.edu.

Registration Fee: RM 30/participant
This seminar is free for all students from higher learning
institutions and Monash University staff.
BEM CPD: 3 Points (MySET/EV/CPD/MUM/2025(84))
Applicable for EA CPD points

Sponsor:



Supporting Organisations:





Event Program

Location: LinkDeck IdeaLink (Level 3 – LD31)

- 1.30 – 1.45pm Registration**
- 1.45 – 1.50pm** **PROF SUDHARSHAN N RAMAN**
Director of the M-CRIInfra Research Hub
Introduction
- 1.50 – 1.55pm** **PROF IR DR CHAI SIANG PIAO**
Deputy Head of School (Research), School of Engineering
Welcoming Remarks
- 1.55 – 2.00pm** **IR PROF DR JEFFREY CHIANG CHOONG LUIN**
President, The Institution of Engineers, Malaysia (IEM)
Opening Remarks
- 2.00 – 2.45pm** **PROF CHUNG-CHAN HUNG**
Distinguished Professor, National Cheng Kung University (NCKU), Taiwan
Development and Applications of Ultra-High-Performance Concrete in Taiwan
- 2.45 – 3.30pm** **ADJ A/PROF IR DR YEN-LEI VOO**
Co-Founder, Director & Chief Technical Officer, Dura Technology Sdn Bhd, Malaysia
Case Studies in Sustainability Performance of UHPC Bridges
- 3.30 – 3.50pm Afternoon Tea & Networking**
- 3.50 – 4.35pm** **DR SHACK YEE HIEW**
Research Fellow, Yonsei University, Korea
Multi-scale Constitutive Modelling of Unconfined and Confined UHPC
- 4.35 – 5.20pm** **IR DR LOW HIN FOO**
Managing Director and Principal Engineer, OSD Consultants Sdn Bhd
Mechanical Properties and Design Fundamentals of UHPC
- 5.20 – 5.30pm Appreciation for Speakers and Closing Ceremony**

Sponsor:



Supporting Organisations:

