



**UNIVERSITI
MALAYA**

CONCET 2026

Kuala Lumpur, Malaysia



17TH INTERNATIONAL CONFERENCE ON CONCRETE ENGINEERING AND TECHNOLOGY (CONCET 2026)

Date: 17 - 21 August 2026

Venue: Universiti Malaya, Kuala Lumpur, Malaysia

CONCET is a biennial international conference organized by the Centre for Innovative Construction Technology (CICT), Department of Civil Engineering, Faculty of Engineering, Universiti Malaya (UM), Kuala Lumpur, Malaysia.

The Institution of Engineers Malaysia (IEM) and Universiti Teknologi MARA (UiTM) are the co-organizers, and the conference is conducted on a rotational basis.

Website: <https://umevent.um.edu.my/CONCET2026>

- **THEME:- ADVANCING CONCRETE CONSTRUCTION : SUSTAINABILITY, INTEGRITY, AND ARTIFICIAL INTELLIGENCE FOR SMARTER BUILT ENVIRONMENTS**



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Ranked

-1st in Malaysia

-3rd in Southeast Asia

-15th in Asia

QS World University Rankings 2026

**58th
in the World**



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CO-ORGANIZERS:



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The Institution of Engineers, Malaysia



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Important Dates

- 1. Abstracts Submission (Extended)**
31 March 2026
(4th Call)
- 2. Notification of Abstracts Acceptance**
5th April 2026
- 3. Full Article Submission**
30 April 2026
- 4. Notification of Review Comments & Article Acceptance**
15 June 2026
- 5. Early-bird Payments**
20 June 2026
- 6. Revision & Camera-Ready Article Submission**
30 June 2026
- 7. Registration & Welcoming Reception**
17 August 2026
- 8. Pre-Conference Workshop**
18 August 2026
- 9. Main Conference**
19- 20 August 2026
- 10. Post-Conference Workshop**
21 August 2026

Publication

Peer-reviewed and accepted papers will be published in:
SCOPUS-Indexed IOP Conference Series: Earth and Environmental
Science

Registration Fees

Full Delegate (Including participation, Submission of 1 paper, proceedings, lunches, and coffee-breaks)

Category	Early bird (20 June 2026)	Standard
Presenter (With Publication) *		
Members of Organizing Institutions : Presenter	RM 750	RM 850
Local Presenter	RM 1,100	RM 1,300
Local Presenter (Student) **	RM 750	RM 850
International Presenter	USD 350	USD 400
International Presenter (Student) **	USD 200	USD 250
Presenter (Without Publication)		
Members of Organizing Institutions : Presenter	RM 500	RM 600
Local Presenter	RM 750	RM 850
International Presenter	USD 250	USD 300
International Presenter (Student) **	USD 200	USD 250
Participants (Non-Presenter)		
Members of Organizing Institutions : Non-Presenter	RM 400	RM 500
Local Participants : Non-Presenter	RM 500	RM 600
International Participants : Non Presenter	USD 100	USD 120
Pre - Conference Workshop		
Workshop Participant	RM 450	RM 550
Post - Conference Workshop		
Workshop Participant	RM 450	RM 550

*Second and third articles will be given a 50% discount (if submitted by the same & presenting author)

**Students must provide proof of student status for attending the conference

▶ Workshop fee will be 50% off for conference participants and presenters.



SPONSORS AND SUPPORTING ORGANIZATIONS

Corporate Sponsors



Alliance Precast Industries Sdn Bhd - Macro Dimension Concrete Sdn Bhd (API-MDC)

API-MDC is a proud Corporate Sponsor of CONCET 2026. Their continued support, following their sponsorship of CONCET 2018, reflects a sustained commitment to excellence in precast and ready-mixed concrete solutions, sustainable development, and industrial innovation. Their ongoing partnership demonstrates the valued collaboration between industry and academia in advancing concrete engineering and construction technology.



Seri Pajam Development Sdn Bhd

Seri Pajam is a proud Corporate Sponsor of CONCET 2026. Having also supported CONCET 2018, their continued involvement highlights a strong commitment to industrial excellence, quality construction practices, sustainable growth, and industry advancement. Their sponsorship reflects the importance of collaboration between construction industry leaders and academic institutions in strengthening the future of concrete engineering and technology.

Gold Sponsor



As the Gold Sponsor of CONCET 2026, Leviat, a global provider of engineered construction solutions, proved their continued support for industrial collaboration with Universiti Malaya. Leviat contribution in innovative technologies, and a shared vision for enhancing durability, performance, and sustainability in modern concrete infrastructure is well known.

Supporting Organizations



CONCET 2026 is supported by SRM Institute of Science and Technology (SRM University), Chennai, India, Vellore Institute of Technology (VIT University), Chennai, India, KCG College of Technology, Chennai, India and the Institution of Civil Engineers Malaysia (ICEM), Malaysia; their supporting role reflects their international academic and professional collaboration in advancing concrete engineering, technology for advancing sustainable and resilient infrastructure and construction.

Keynote & Invited Speakers



Dr. Craig Giacco

BEng (Adelaide), PhD (Monash), CPEng, FICE, FIEAust, IntPE

United Kingdom

Keynote Lecture:

The Path to Second-Generation Eurocode 2: Evolution, Principles, and Key Changes to Enable Resilient and Sustainable Design

Workshop:

Reuse and Retrofitting of Concrete Structures with CFRP to Support a Carbon-Neutral Future

- Technical Director at Hewson Consulting and a chartered bridge and civil engineer, and a Fellow of Engineers Australia and the Institution of Civil Engineers.
- Three decades of experience leading the delivery of infrastructure design projects in the UK, Australia, UAE, Saudi Arabia, New Zealand, and Ireland.
- Some key projects have included the Queensferry Bridge and led on several Category 3 check packages, Lower Thames Crossing, etc.
- Played a significant role in updating EN1992-1-1(2023) and currently sits on the UK National Annex committee.



Professor Dr. Caijun Shi

BEng MEng (CH) PhD (CA) P.Eng FACI

Canada / China

Keynote Lecture:

Advances in Carbon Negative Building Materials and Products

- President, Asia Concrete Federation
- Chair Professor, College of Civil Engineering, Hunan University and China Building Materials Academy
- Affiliated Professor, Department of Civil Engineering, The University of British Columbia, Vancouver BC V6T 1Z4, Canada
- Editor-in-Chief, Journal of Sustainable Cement-based Materials
- Specialized in characterization and utilization of industrial by-products and waste materials

An honorary session will be held in honour of Prof. Dr. Caijun Shi for his immense contributions to academia, industry, and society in Asia and beyond.



Dr. Weng Yuen Kam

**PhD, B.Eng (Hons),
B.Com., CPEng,
IntPE, MIPENZ**

Singapore

**Keynote Lecture:
Seismic design for low-to-moderate seismic countries – a practicing researcher's perspective**

**Workshop Title:
Right-Sizing Resilience: Practical Seismic Design for Low-to-Moderate Seismicity**

- Dynamic, results-driven engineering leader with 20+ years of experience in Singapore and New Zealand, delivering iconic, complex, and high-impact projects across multiple markets.
- Currently Business Director – Structural Engineering at Beca Singapore C&S.
- Seismic engineering & standards development.
- In Singapore, he has contributed to major mixed-use developments such as Marine One and is a specialist in seismic and structural engineering, particularly low-to-moderate seismic design and the seismic retrofit of existing and non-structural elements.



Professor Dr.-Ing. Markus Konig

Dipl.-Ing., PhD (Civil Eng)

Germany

**Keynote Lecture:
From Data to Decisions: Artificial Intelligence Shaping the Future of the Construction Industry**

- A leading expert driving Building Information Modeling (BIM) and digital transformation in the construction industry.
- Professor at Ruhr University Bochum since 2009 with pioneering research in digital construction and project management.
- Developed Germany's first national BIM curriculum as Chair of the German Association of Computing in Civil Engineering (GACCE).
- Award-Winning Innovator: Recipient of the Konrad Zuse Medal (2020) and the Construction Industry Award of Lower Saxony–Bremen (2017).



Mr. Gary Connah
BEng (LOU) CEng MIES
United Kingdom

Keynote Lecture:
Precast Concrete Research in Action:
A Teamwork Journey from Idea to
Implementation for Hybrid Bolted Precast
Connections

- Country Manager for Leviat (Singapore) and a global product manager.
- Graduated from Loughborough University (UK) in 1996.
- Possesses extensive experience in all connection technologies, including mechanical splices and anchor solutions
- Has held leadership technical roles as Chair of the AEFAC technical committee (Australia) and is currently the Vice President at the Singapore Concrete Institute.



Professor Wei Pan
BEng MSc PhD FHEA
FHKIE FICE
Hong Kong, China

Keynote Lecture:
Smart and Sustainable Modular Integrated
Construction: High-density Cities Future
Building

- President of the International Association for Modular Construction (IAMC)
- Head, Department of Civil Engineering & Executive Director, Centre for Innovation in Construction and Infrastructure Development & Director, MiCLab at University of Hong Kong
- Board Director of the International Association for Automation and Robotics in Construction (IAARC) & Board Director of Hong Kong Building Technology Research Institute (BTRi)
- Chief Advisor of the Greater Bay Area Smart Construction Technology Innovation Alliance
- Editor-in-Chief of Engineering Sustainability
- 2020 and 2025 Honours List of the HKSAR Government with Medal of Honour, and MiC Outstanding People
- TSB Visiting Professor to Nanyang Technological University; Visiting/Guest Professor to Hunan University, Southeast University and Tongji University; Visiting Faculty to Imperial College London; University of Macau Distinguished Visiting Scholar



Professor Dr. Sofiane Amziane

**PhD, MSc, MEng
Fellow RILEM**

France

Keynote Lecture: Plant-Based Materials at the Heart of Construction: Needs, Opportunities, and Outlook

- Full Professor at Clermont Auvergne University, Polytech Clermont, CNRS, Institut Pascal UMR 6602, with extensive academic and research leadership experience.
- Invited Professor at prestigious institutions including ETH Zurich and UFRJ Rio de Janeiro.
- Chair and active member of multiple RILEM Technical Committees, with significant contributions to bio-based and sustainable construction materials research.
- Guest Editor for Construction and Building Materials (Elsevier) and Associate Editor for the European Journal of Environmental and Civil Engineering (Wiley); recipient of multiple international and university research awards.



Professor Dr. Elhem Ghorbel

Dipl.-Ing., MSc, PhD

France

Keynote Lecture: Sustainable Engineering of Compressed Earth Blocks: From Tunnel Excavation to AI-Assisted Mix Design

- Professor of Civil Engineering at CY Cergy Paris Université (France), specializing in concrete durability, sustainable construction materials, and polymer-concrete systems.
- Leading expert in industrial waste valorization, eco-efficient binders, recycled aggregates, and advanced FRP and bio-based repair technologies.
- Recipient of multiple international recognitions, including ranking among the top 2% most influential scientists worldwide (Stanford University).
- Contributor to major European and national research programs such as MINRESCUE, MOBICCON-PRO, and RECYBEX, advancing low-carbon and circular-economy solutions.
- Serves on high-level expert panels (ANR, NSERC, AFNOR) and actively participates in professional associations such as AFGC and international scientific committees.



Professor Dr. Hao Wang

PhD, PE, F.EMI

**United States
of America**

Keynote Lecture: Low-Carbon Pervious Concrete Pavement: Material Design and Techno-Economic- Environmental Assessment

- Professor and Graduate Program Director, Department of Civil and Environmental Engineering, Rutgers University, USA.
- Research expertise in innovative materials, computational modeling, and data analytics for sustainable, resilient, and smart pavement systems and transportation infrastructure.
- Principal Investigator or Co-PI on over 70 research projects funded by more than 20 federal and state agencies across the United States.
- Author of over 300 peer-reviewed journal publications.
- Fellow of the Engineering Mechanics Institute (EMI), American Society of Civil Engineers (ASCE).
- Recipient of the prestigious Walter L. Huber Civil Engineering Research Prize from ASCE.
- Internationally recognized keynote speaker in pavement engineering and sustainable infrastructure.

Theme:

Advancing Concrete Construction: Sustainability, Integrity, and Artificial Intelligence for Smarter Built Environments

Sub-Themes:

1. SUSTAINABLE CONCRETE, DESIGN AND CONSTRUCTION

- ▶ Low- Carbon Cementitious Materials
- ▶ Recycled Aggregates and Waste Materials
- ▶ Biogenic and Bio-Inspired Materials
- ▶ Industrial and Municipal Waste as Construction Materials
- ▶ Treated and Untreated Sludge Valorisation in Mortar and Concrete
- ▶ Life-Cycle Assessment (LCA) on Low-Carbon Footprint Concrete
- ▶ Circular Economy Approaches in Construction
- ▶ Cement and Cement - Based Composites
- ▶ Alkali Activated Materials (AAMs) and Geopolymer Concrete
- ▶ Self-Healing Concrete and Microbial Induced Healing Technology
- ▶ Eco-Friendly and Architectural Concrete

2. DIGITALIZATION AND MODERN CONSTRUCTION

- ▶ Building Information Modelling (BIM) for Construction
- ▶ Modular Construction
- ▶ 3D Printing and Robotic Construction
- ▶ Digital Twins for Infrastructure Management
- ▶ Artificial Intelligence and Machine Learning in Concrete Engineering Technology
- ▶ Internet of Things (IoT) and Smart Sensors for Monitoring
- ▶ Non- Destructive Testing (NDT) and Evaluation
- ▶ Project Management and Economics
- ▶ Safety in Concrete Construction

3. RETROFITTING AND REHABILITATION

- ▶ Strengthening Techniques (E.g FRP, FRCM)
- ▶ Life-Cycle Management and Maintenance of Concrete Structures
- ▶ Condition Assessment and Damage Diagnosis
- ▶ Repair and Retrofit of Historical and Heritage Structures
- ▶ Durability and Corrosion Science
- ▶ Constitutive Laws of Concrete
- ▶ Quality Control and Assurance
- ▶ Climate Change Mitigation and adaptation for Civil Engineers

4. HIGH PERFORMANCE CONCRETE AND NANOTECHNOLOGY

- ▶ High-Performance Concrete (HPC)
- ▶ Ultra-High-Performance Concrete (UHPC)
- ▶ Smart Concrete
- ▶ Fibre-Reinforced Concrete (FRC)
- ▶ High- Performance Fiber-Reinforced Cementitious Composites (HPFRCC)
- ▶ Nanotechnology in Concrete
- ▶ Multiscale and Multi Physics Modelling of Concrete
- ▶ Advanced Curing Techniques

5. SPECIAL CONCRETE STRUCTURES AND APPLICATIONS

- ▶ Bridges and Tunnels
- ▶ Marine and Offshore Structures
- ▶ Precast and Prestressed Concrete
- ▶ Concrete Structural Modelling and Simulation
- ▶ Analytical & Design Methods of Concrete Structures
- ▶ Computational Mechanics
- ▶ Special Concrete Structures
- ▶ Simulation of Structural Performance Under Extreme Conditions
- ▶ High-Rise Building and Large-Span Structure

6. STRUCTURAL ANALYSIS, DESIGN AND ENGINEERING

- ▶ Structural Health Monitoring
- ▶ Seismic and Wind Engineering
- ▶ Finite Element Analysis
- ▶ Performance-Based Design
- ▶ Optimization with Computational Analysis
- ▶ Computational Fluid Dynamics (CFD) for Load Analysis
- ▶ Computational Geomechanics and Modelling
- ▶ Protective Design Against Extreme Loads (Blast, Impact, Fire)
- ▶ Probabilistic and Reliability-Based Design
- ▶ Multi-Scale Modelling of Cement Composites
- ▶ Site Characterisation and In-Situ Testing
- ▶ Soil-Structure Interaction (SSI)
- ▶ Fracture and Damage Mechanics of Concrete

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Advancing Concrete Construction: Sustainability, Integrity, and Artificial Intelligence for Smarter Built Environments

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