

Organiser



香港大學
THE UNIVERSITY OF HONG KONG



模塊組合建造實驗室
MiC Laboratory

Government Collaborator



發展局
Development Bureau

Co-organisers



香港大學建造及基建創新研究中心
CENTRE FOR INNOVATION IN CONSTRUCTION AND
INFRASTRUCTURE DEVELOPMENT



Building Technology
Research Institute
香港建築科技研究院

International Conference on Modular Integrated Construction



26 June 2025 (Thursday)



Rayson Huang Lecture Theatre
The University of Hong Kong, Pokfulam, Hong Kong



香港大學黃竹坑學生宿舍
WONG CHUK HANG STUDENT RESIDENCE
THE UNIVERSITY OF HONG KONG

WARNING 4.05M HEIGHT LIMIT

International Conference on Modular Integrated Construction: *New Paradigm*

Overview

Modular Integrated Construction (MiC) is an innovative approach to transforming the construction industry, and has gained popular recognition in the construction and development sectors of Hong Kong, Greater Bay Area (GBA) and beyond in the past few years. The University of Hong Kong (HKU) developed MiC together with the Development Bureau of the HKSAR Government in 2017. Supported by the systematic research of HKU MiCLab, MiC has made significant impacts on policy, society, and industry development. Remarkably, MiC has been highlighted in the Policy Address of Hong Kong for eight consecutive years since 2017. As of 2024, MiC has been adopted for delivering over 100 capital projects covering public housing, transitional housing, private residential, student hostels, staff quarters, schools, and hospitals, etc., to address urgent social needs. Moreover, the modular construction approach has been promoted internationally. This conference provides a timely occasion for local and international experts from government, industry and academia to share MiC breakthroughs and exchange innovative modular construction knowledge and practices.

Highlights

- ✧ To promote MiC internationally and share MiC breakthroughs and innovations
- ✧ To share the latest findings of research on MiC 2.0+ advanced structural engineering, innovative building materials and smart project delivery
- ✧ To share modular construction knowledge and practices from experts internationally
- ✧ To launch the International Association for Modular Construction (IAMC) which aspires to champion modular construction technology breakthroughs and knowledge sharing
- ✧ To demonstrate the state-of-the-art MiC research and monitoring facilities at MiCLab

Technology breakthrough case studies of MiCLab

- Super-tall modular building structural solutions (50 storeys +)
- Disruptive horizontal and vertical connections (minimized site wet trades)
- Sustainable and low-carbon material solutions for MiC (reducing 25% embodied carbon +)
- Large-sized module transportation solutions (12m long module, 22m long vehicle +)
- Heavy module lifting SMART technology and solutions (39t module, 50t overall payload +)
- MiC monitoring and autonomous module lifting crane solutions (collision-free, mm control)



Guest of Honour and Opening Address



Ms Bernadette Linn, JP

*Secretary for Development
Development Bureau
The Government of the Hong Kong
Special Administrative Region
(HKSAR)*

Special Remark

**Ministry of Housing and Urban-
Rural Development of the
People's Republic of China
(MOHURD)**

Special Guest



Ir Ricky Lau, JP

*Permanent Secretary for Development (Works)
Development Bureau
The Government of the Hong Kong Special Administrative Region*

Conference Advisors



**Ir Professor Mak Chai-kwong,
GBS, JP**

*Vice Chairman
Centre for Innovation in Construction
and Infrastructure Development
The University of Hong Kong*



Ir Hon Chi-keung, GBS, JP

*Chairman
Building Technology Research
Institute, Hong Kong*



Ir Professor Thomas Ho

*Chairman
Construction Industry Council, Hong Kong*

Conference Organising Committee Chairman



Professor Wei Pan

*Head of Department of Civil Engineering
Director of MiCLab
Executive Director, Centre for Innovation in Construction and Infrastructure Development
The University of Hong Kong*



MoU Representatives



Mr Michael Fong, JP

*Director
Civil Engineering and Development
Department
The Government of the Hong Kong
Special Administrative Region*



Mr XIE Huihui

*Deputy Director - General
The Authority of Qianhai
Shenzhen-Hong Kong Modern
Service, Industry Cooperation
Zone of Shenzhen Municipality*

Distinguished Speakers



Professor Thomas Bock

*Chair Professor Emeritus of
Building Realization and Robotics
Department of Architecture
Technical University of Munich
(TUM), Germany*



Professor Martin Fischer

*Professor of Department of Civil
and Environmental Engineering
Stanford University, US*



Professor Mohamed Al-Hussein

*Professor of Department of
Civil and Environmental
Engineering
University of Alberta, Canada*



Professor Tuan Ngo

*Professor of Electrical,
Mechanical and Infrastructure
Engineering
The University of Melbourne,
Australia*



Professor Chris Goodier

*Professor of Construction
Engineering and Materials
Loughborough University, UK*



Professor Richard Liew

*Head of Department of Civil and
Environmental Engineering
National University of
Singapore, Singapore*



Mr Edward Wong

*Project Director
Architectural Services Department
The Government of the Hong Kong
Special Administrative Region*



Dr Sherman Yip

*Assistant Director (Development &
Procurement)
Housing Department
The Government of the Hong Kong
Special Administrative Region*



Mr Edmond Lo

*Project Director
Chinachem Group, Hong Kong*



Mr Alan Tan

*Founder & Managing Director
United Tec Construction Pte.
Ltd., Singapore*

**More speakers will be announced soon.*

Panel Moderators and Speakers



Ir Professor Thomas Ho

*Chairman
Construction Industry Council,
Hong Kong*



Ir Frankie Fung

*Principal Assistant Secretary
Development Bureau
The Government of the Hong Kong
Special Administrative Region*



Mr XIE Huihui

*Deputy Director - General
The Authority of Qianhai Shenzhen-
Hong Kong Modern Service,
Industry Cooperation Zone of
Shenzhen Municipality*



**Building and Construction
Authority**

Singapore



Ir John Kwong, BBS

*Director
Building Technology Research
Institute
Hong Kong*



Mr Edward Wong

*Project Director
Architectural Services Department
The Government of the Hong Kong
Special Administrative Region*



Mr Franco Cheung

*Director (Projects)
Hong Kong Housing Society*



Ir Dr Conrad Wong, BBS, JP

*Chairman
Hong Kong Modular Integrated
Construction Manufacturer
Association (HKMiCMA)*



Dr Louis Chu

*Associate Director
Estates Office
The University of Hong Kong*



Mr ZHANG Zongjun

*Chairman
China State Construction Hailong
Technology Co., Ltd.*



Er. Wong Seng

*Executive Director
TW-Asia Consultants Pte Ltd.
Singapore*



Mr Alan Tan

*Founder & Managing Director
United Tec Construction Pte Ltd.
Singapore*

**More speakers will be announced soon.*



Programme Rundown

26 June 2025, Thursday, CONFERENCE DAY

9:00-12:30 Morning Session

- **WELCOME ADDRESS**, *The University of Hong Kong*
- **OPENING ADDRESS**
Guest of Honour Ms Bernadette Linn, JP, Secretary for Development, The Government of HKSAR
- **SPECIAL REMARKS**
Ministry of Housing and Urban-Rural Development of the People's Republic of China
- **MoUs Signing Ceremony & Launch of International Association for Modular Construction**
- **SPEECHES**
MiC R&D New Paradigm
Prof Wei Pan, Head of Department of Civil Engineering, Director of MiCLab, HKU
Modular Buildings Empowered by Virtual Design and Construction
Prof Martin Fischer, Department of Civil and Environmental Engineering, Stanford University, US
Prefabricated Prefinished Volumetric Construction: Engineering Innovations in Singapore
Prof Richard Liew, Head of Department of Civil and Environmental Engineering, NUS, Singapore
Automated Technologies for Modular Construction: from Lab to Commercialization
Prof Mohamed Al-Hussein, University of Alberta, Canada
- **PANEL SESSION – MiC Policy and Strategic Development**
Moderated by Ir Prof Thomas Ho, Chairman, Construction Industry Council
Ministry of Housing and Urban-Rural Development of the People's Republic of China
Mr XIE Huihui, Deputy Director General, The Authority of Qianhai of Shenzhen Municipality
Building and Construction Authority, Singapore
Ir John Kwong, BBS, Director, Building Technology Research Institute
Mr Edward Wong, Project Director, Architectural Services Department, The Government of HKSAR
Mr Franco Cheung, Director (Projects), Hong Kong Housing Society

26 June 2025, Thursday, CONFERENCE DAY

14:00-17:30 Afternoon Session

■ **SPEECHES**

Modular Buildings Augmented by Automation and Robotics

Prof Thomas Bock, Chair Professor Emeritus of Building Realization and Robotics, TUM, Germany

Modular Construction Research and Development in the UK

Prof Chris Goodier, Loughborough University, UK

Modular Construction Breakthroughs in Australia

Prof Tuan Ngo, The University of Melbourne, Australia

MiC for Government Buildings

Mr Edward Wong, Project Director, Architectural Services Department, The Government of HKSAR

MiC for Public Housing Development

Dr Sherman Yip, Assistant Director (Development & Procurement), Housing Department

MiC for Super-Tall Building Development

Mr Edmond Lo, Project Director, Chinachem Group, Hong Kong

A 56-storey PPVC Case Study

Mr Alan Tan, Founder & Managing Director, United Tec Construction Pte. Ltd., Singapore

■ **PANEL SESSION – MiC Technology Breakthrough and Project Delivery**

Moderated by Ir Frankie Fung, Principal Assistant Secretary (Project Capability and Strategy), Development Bureau, HKSAR Gov

Ir Dr Conrad Wong, BBS, JP, Chairman, HKMiCMA

Dr Louis Chu, Associate Director, Estates Office, HKU

Mr ZHANG Zongjun, Chairman, China State Construction Hailong Technology Co., Ltd.

Er. Wong Seng, Executive Director, TW-Asia Consultants Pte Ltd., Singapore

Mr Alan Tan, Founder & Managing Director, United Tec Construction Pte Ltd., Singapore

■ **CLOSING REMARKS**

Ir Prof Mak Chai-kwong, GBS, JP, Vice Chairman, CICID of HKU

Conference Luncheon & Dinner (by invitation)

* The programme is subject to changes.

* Registration link: https://hkuems1.hku.hk/hkuems/ec_hdetail.aspx?guest=Y&ueid=100199

* For more information and registration, please visit MiCLab website: <https://www.miclab.hk/>