Technical Seminar on Modular Integrated Construction (MiC)
Date: 11 July 2019 (Thursday)
Time: 9:00 a.m. – 5:00 p.m. (Registration will start at 8:30 a.m.)
Venue: InterContinental Grand Stanford Hotel, Mody Road, TST East.

This Technical Seminar is part of the “Professional Development Programme for Design and Construction Engineers” jointly organized by the Hong Kong Constructional Metal Structures Association and the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) of The Hong Kong Polytechnic University.

Jointly organized by
- Hong Kong Constructional Metal Structures Association, and
- The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch), The Hong Kong Polytechnic University

Sponsored by
- Construction Innovation and Technology Fund

Supported by
- Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) was established in October 2015 at the Hong Kong Polytechnic University with the approval of the Ministry of Science and Technology of the People’s Republic of China. It is supported by the Innovation and Technology Funds of the Government of Hong Kong SAR. The main objective of the CNERC is to promote effective design and construction of buildings and civil engineering structures for sustainable infrastructure development in Hong Kong.

Established in July 2010, the Hong Kong Constructional Metal Structures Association aims to promote effective use of metal structures in construction in Hong Kong and neighbouring areas through technical exchange and collaboration on education, research and development, and professional practice among universities, research institutes and industrial associations.
Highlights:
Advances in Modular Integrated Construction (MiC) are important to practicing engineers in Hong Kong due to growing demands on infrastructure construction in the Region, in particular China, through wide adoption of MiC in the coming years.

This series of professional development programme provides a technical platform for a number of renowned designers, and engineers as well as researchers to disseminate their experiences and research findings on advanced construction technology of MiC to enable innovative applications of modular integrated construction in both public and private buildings.

This Technical Seminar aims to promote MiC in practical application, and the presentations are delivered by:

Prof. Priyan Mendis  
The University of Melbourne, Australia

Ir Prof. K. F. Chung  
The Hong Kong Polytechnic University

Dr. T. M. Chan  
The Hong Kong Polytechnic University

Ir Richard S. M. Lee  
Yau Lee Construction Co., Ltd.

Ir W. M. Leung  
P&T Group

Prof. S. P. Chiew  
Singapore Institute of Technology, Singapore

Mr. Z. M. Chen  
China Construction Steel Structure Corp., Shenzhen, China

Ir Dr. Goman Ho  
Ove Arup and Partners Hong Kong Limited

Dr. Louis Y. L. Chu  
The University of Hong Kong
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Speakers:

Professor Priyan MENDIS
Prof. Priyan Mendis is Professor of Civil Engineering at The University of Melbourne and Director of Australian Research Council’s Centre on Prefabricated Buildings in Australia. He completed his PhD in Monash University and worked as a structure engineer at Connell Wagner Ltd- Australia’s largest structural engineering consulting company before he joined the Department of Infrastructure Engineering of The University of Melbourne. He has worked for over 25 years as an academic and a structural consultant. He is a world expert on high-rise structures and modular construction. He has been involved with many high-rise structures in Australia and overseas. He is a Fellow of the Australian Institution of Engineers and a Charted Engineer of Australia. He is also the Editor-in-Chief of the Electronic Journal of Structural Engineering (EJSE) since 2001.

Ir Professor Kwok Fai CHUNG
Ir Prof. K. F. Chung is a renowned academic, researcher and structural engineer with established expertise in steel and composite design and construction. Currently, Prof. Chung is a Professor at the Department of Civil and Environmental Engineering of the Hong Kong Polytechnic University, and Vice President of the Institution of Structural Engineers in the U.K. He is Founding President of the Hong Kong Constructional Metal Structures Association. Prof. Chung obtained his Bachelor Degree of Engineering from Sheffield University in 1984, and his Ph.D. from then the Imperial College of Science and Technology in 1988. Prof. Chung worked at the Steel Construction Institute in the U.K. for six years, and then two leading consultancy firms in Hong Kong before joining the Hong Kong Polytechnic University in 1996. Prof. Chung was appointed to be Director of the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) by the State Ministry of Science and Technology, China in October 2015. The CNERC was funded by the Innovation and Technology Commission of the Government of Hong Kong SAR and the Hong Kong Polytechnic University.
Dr. Tak Ming CHAN
Dr. T. M. Chan is an Associate Professor at the Hong Kong Polytechnic University and an Honorary Associate Professor at the University of Warwick in the U.K. He is Deputy Secretary-General of the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch). He is also a Council Member of the Institution of Structural Engineers. He specializes in steel structures and has been leading research projects on stability of steel structures and earthquake engineering. His research achievement has been recognized by numerous awards by the Hong Kong Institution of Engineers and the Institution of Structural Engineers. He is also the recipient of the Teaching Excellence Award from Department of Civil and Environmental Engineering at The Hong Kong Polytechnic University in 2017.

Ir Richard S. M. LEE
Ir Richard Lee is General Manager of Yau Lee Construction Co. Ltd. He is a Fellow of The Hong Kong Institution of Engineers and a Council Member of the Hong Kong Construction Association. He has been engaged in design, construction and project management of building works. He has instigated and developed the semi-precast construction technology since 1993. With over 18 years of experience on volumetric precast concrete construction, he leads the development of semi-precast concrete modular integrated construction system of Yau Lee Construction Co. Ltd.

Ir Wai Man LEUNG
Ir W. M. Leung graduated from the University of Hong Kong in 1984 and started his career Housing & Development Board in Singapore. He joined P&T Group’s Singapore office in 1987 and returned to practice in P&T’s Hong Kong office since 2013. He is currently a Director of P&T Group’s Hong Kong, Singapore and Vietnam offices. Since joining P&T, he has been involved in the design and management of a full spectrum of projects in Singapore, Hong Kong, Shanghai, Beijing, Dubai, Vietnam and other South East Asian countries. He has particular interest in design of precast structures. Since 1990’s, he has applied various precast structure solutions to P&T’s projects. He is also involved in the research and development, and application of design for modular construction to P&T’s projects since 2013.

Professor Sing Ping CHIEW
Prof. S. P. Chiew is Professor of Civil Engineering and Director of Civil Engineering Programmes at Singapore Institute of Technology, Singapore’s fifth autonomous university with a strong focus on Applied Learning. He was previously Head of the Division of Structural Engineering and Mechanics at Nanyang Technological University, Singapore from 2008 to 2014. He is a Member of the Panel of Expert Advisors of the Land Transport Authority, Board Member of the Professional Engineers Board, Member of the Technical Advisory Panel of the Inland Revenue Authority and Member of the Inquiry Panel of the Law Society of Singapore.
陳振明技術部總經理

陳振明先生是中建鋼構有限公司技術管理部總經理，國家一級註冊結構工程師、國家一級註冊建造師、英國特許註冊結構工程師。中國鋼結構協會結構專家委員，中國建築金屬結構協會鋼結構專家委員，中國建築金屬結構協會鋼結構資訊化技術專家委員會副主任，廣東省鋼結構協會秘書長，廣東省鋼結構協會專家委員會副主任，中國鋼結構協會鋼結構焊接分會理事長，中國鋼結構協會設計分會理事。先後負責了中國第五屆園藝博覽園綜合館、深圳寶安游泳館屋蓋、深圳福田體育館、天津開發區二十周年紀念雕塑、中山文化中心、江陰化工 PET 專案、瀋陽沈河文體中心等專案的結構設計。先後負責了中央電視臺 CCTV 主樓鋼結構、貴陽奧體中心鋼結構、武漢國際博覽中心鋼結構、福州海峽國際會展中心鋼結構、福州世茂鋼結構、青島火車站鋼結構、瀋陽恒隆市府廣場等鋼結構專案深化設計工作。具有豐富的現場施工技術管理、工廠監造、專案總工、製造技術、結構設計和分析、深化設計等工作經驗。

Dr. Goman Ho

Ir Dr Goman Ho is an Arup Fellow and the Director of Innovations. He has been working with Arup since 1992. He was the first global leader for Arup Tall Buildings Skills Network. He was involved in many tall building projects with an accumulated height approaching to 8 km, including CCTV HQs in Beijing, and the 597m tall Goldin Finance TJ117 in Tianjin etc. He was the technical director of the first multi-storey MiC project in Hong Kong – The MiC Display Center. He has published more than 30 technical papers in international journals and conferences. Besides serving as a reviewer for technical journals, the chief editor for “Tall Buildings in Asia”, a co-author of “Outrigger Design for High-Rise Buildings”, he contributed a chapter in “Techniques in Vibration Analysis of Structural Steel Frames”, and two chapters in “Design of Buildings and Structures in Low to Moderate Seismicity Countries”.

Dr. Louis Yiu Leung Chu

Dr. Louis Y. L. Chu joined The University of Hong Kong since 2009, and he is currently an Assistant Director of Estates Office. He obtained his PhD degree from the Hong Kong Polytechnic University on evaluation of performance of reinforced concrete cantilevered structures. Over the course of his professional career in the construction industry for more than 20 years, Dr. Chu participated in a wide variety of construction projects in Hong Kong and Macau. These include commercial complex, residential developments, all-suite hotel with 3,000 rooms, large scale site formation and foundation works, etc. He served for about 10 years at The University of Hong Kong and involved major projects including re-provision of services reservoirs, development of the Centennial Campus and a new Auditorium of 400 seats. He is currently the project in-charge for student hostel projects and a new academic building for the Faculty of Medicine at Sassoon Road.
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Programme:

<table>
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<tr>
<th>Time</th>
<th>Programme</th>
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<tbody>
<tr>
<td>9:00 a.m.</td>
<td><strong>Opening Ceremony</strong>&lt;br&gt;Mr. K. K. Chan, SBS, JP, Construction Industry Council</td>
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<tr>
<td>9:15 a.m.</td>
<td><strong>Presentation 1</strong>&lt;br&gt;High-rise Modular Construction - Latest development&lt;br&gt;Prof. Priyan Mendis, The University of Melbourne</td>
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<td>9:45 a.m.</td>
<td><strong>Presentation 2</strong>&lt;br&gt;Key design considerations in Modular Integrated Constructions for Hong Kong&lt;br&gt;Ir Prof. K. F. Chung and Dr T. M. Chan, The Hong Kong Polytechnic University</td>
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<tr>
<td>10:15 a.m.</td>
<td><strong>Refreshments</strong></td>
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<td>10:45 a.m.</td>
<td><strong>Presentation 3</strong>&lt;br&gt;Modular Integrated Construction – Semi-Precast Concrete MiC System&lt;br&gt;Ir Richard S. M. Lee, Yau Lee Construction Co., Ltd.</td>
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<td>11:15 a.m.</td>
<td><strong>Presentation 4</strong>&lt;br&gt;Sharing of P&amp;T’s experience – from precast to MiC construction, from Singapore to Hong Kong&lt;br&gt;Ir W. M. Leung, P&amp;T Group</td>
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<td>11:45 a.m.</td>
<td><strong>Panel Discussion</strong></td>
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<td>12:15 p.m.</td>
<td><strong>Lunch Break</strong></td>
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<td>2:00 p.m.</td>
<td><strong>Presentation 5</strong>&lt;br&gt;PPVC - A DfMA Game Changing Technology for Singapore&lt;br&gt;Prof. S. P. Chiew, Singapore Institute of Technology, Singapore</td>
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<tr>
<td>2:30 p.m.</td>
<td><strong>Presentation 6</strong>&lt;br&gt;建築鋼結構高效焊接新技術及應用&lt;br&gt;陳振明技術部總經理, 中建鋼構有限公司</td>
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<td>3:00 p.m.</td>
<td><strong>Refreshments</strong></td>
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<tr>
<td>3:30 p.m.</td>
<td><strong>Presentation 7</strong>&lt;br&gt;Stepping into a New Era of Modular Integrated Construction&lt;br&gt;Ir Dr. Goman Ho, Ove Arup and Partners Hong Kong Limited</td>
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<td>4:00 p.m.</td>
<td><strong>Presentation 8</strong>&lt;br&gt;Project management on MiC in Hong Kong – Case study on a student hostel&lt;br&gt;Dr. Louis Y. L. Chu, The University of Hong Kong</td>
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<td>4:30 p.m.</td>
<td><strong>Panel Discussion</strong></td>
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<td>5:00 p.m.</td>
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Registration:

Registration fee includes 1-day attendance, a set of lecture notes, a copy of CPD certificate, lunch and refreshments:

- Regular Registration: HK$1,200 each
- Group Registration: HK$1,000 each for a group registration of at least 3 people

For Graduate Engineers who graduated in or after 2017, they may apply for registration with a special discount at HK$1,000. A copy of graduation certificate should be provided together with the completed Registration Form.

As there are limited seats, all registration will only be confirmed upon receipt of payment and on a first-come-first-served basis. The CPD certificate and the official receipt for each participant will be distributed at the end of the event.

Post the completed registration form together with a crossed cheque on or before 17 June 2019 to:

CNERC for Steel Construction (Hong Kong Branch)
Unit Z106, Phase 8, Block Z, The Hong Kong Polytechnic University
Hung Hom, Kowloon, Hong Kong.

The crossed cheque should be made payable to:

Hong Kong Constructional Metal Structures Association Limited

You can also email your completed registration form for preliminary registration, while registration will only be confirmed upon receiving the cheque payment by post.

For enquiry, please contact Ms. Catherine Ng (Tel: 3400 8442 or Email: cecatng@polyu.edu.hk)
REGISTRATION FORM

To: Ms. Catherine Ng (via email: cecatng@polyu.edu.hk)
CNERC for Steel Construction (Hong Kong Branch)
Room Z106, Phase 8, Block Z, The Hong Kong Polytechnic University, Hung Hom, Kowloon

A. Personal Details:

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<th>Title</th>
<th>Name (in full)</th>
<th>Name of Company</th>
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B. Registration Details:

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<th>Item</th>
<th>Registration Fee</th>
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<tbody>
<tr>
<td>1. Regular registration</td>
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<td>2. Group registration (for at least 3 people)</td>
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<td>3. Registration as Graduate Engineers* (graduated in or after 2017)</td>
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Note: *A copy of graduation certificate should be provided together with this Registration Form. As there are only limited seats, this category of registration is first-come-first-served.

I enclose a crossed cheque with the sum of HK$ ______________ which is made payable to Hong Kong Constructional Metal Structures Association Limited for the registration fees of the captioned Seminar.

Signature: _______________________________ Date: ____________________