

## News Article for RISUD Strategic Focus Area (SFA) Scheme

- |  | <b>Name</b>  | <b>Department</b> |
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| 1. <b>Principal Investigator:</b>  | <u>Geoffrey Shen</u>   | <u>BRE</u>        |
| 2. <b>Name of SFA:</b>   | <u>Construction Industrialisation</u>  |                   |
| 3. <b>Project Title:</b>   | <u>A technology-enabled interdisciplinary platform for innovative façade design and installation in industrialized building construction</u> |                   |
| 4. <b>First Year Progress/Achievement</b> ( <i>in layman’s language, no more than two A4 pages</i> ) |  |                   |

An International Workshop on Industrialization of Modular Construction as the part of RISUD Annual International Symposium 2018 (RAIS 2018) was held on 30 June 2018 at The Hong Kong Polytechnic University. Organized by the Research Institute for Sustainable Urban Development (RISUD) with the theme “Inter-disciplinary Research for Societal Impact,” this workshop aims to provide an international platform for in-depth exchanges in the major areas related to Industrialization of Modular Construction development. The workshop brought together senior representatives from the three sectors of government, industry, and universities to serve as a catalyst for international collaborations.

The Workshop was kicked off by a Welcome Address by Prof. Geoffrey Q.P. SHEN, Chairman of the International Workshop on Industrialization of Modular Construction and Interim Vice President (student Affairs) of PolyU. This speech was followed by ten plenary presentations covering various aspects of the theme by Prof. Ronald Richard WAKEFIELD, Professor of Construction, Deputy Pro Vice-Chancellor International and Dean of the School of Property, Construction and Project Management at RMIT University, Australia; Prof. Guiwen LIU, Dean/ School of Construction Management and Real Estate, Chongqing University, China; Prof. Stephen James FOSTER, Head of School, Civil and Environment Engineering, UNSW Sydney and Interim Head of the School of Minerals and Energy Resources Engineering; Prof. Minehiro NISHIYAMA from Department of Architecture and Architectural Engineering, Kyoto University; Dr. Wilson W.S. LU, Associate Dean (Research) of Faculty of Architecture, The University of Hong Kong; Dr. Jack C.P. CHENG from the Hong Kong University of Science and Technology, Director of RFID Center; Dr. Hung-lin CHI from the Hong Kong Polytechnic University; Dr. Jingke HONG from the Chongqing University, China; Prof. Jian-guo DAI from the Hong Kong Polytechnic University; and Prof. Geoffrey Q.P. SHEN. The plenary presentations were very well received by the participants.

After a Welcome Address by Prof. Geoffrey Q.P. SHEN and an Opening Address by Mr. Marco WU Moon-hoi, Prof. Ronald Richard WAKEFIELD introduced the Construction Industrialization – Thoughts from 20 years of Research; then Prof. Guiwen LIU described ‘Smart Construction Approaches for Prefabricated Buildings’; after that, Prof. Stephen James FOSTER also brought us a wonderful presentation on ‘Developments in New and Sustainable

Concretes and High-Performance Reinforcing Materials and Their Incorporation into National Building Standards’; Prof. Minehiro NISHIYAMA talked about ‘Precast Concrete Buildings In Japan - Evolution, Construction Practice And Seismic Performance’; Dr. Wilson W.S. LU then explained “Undisruptive Technology” for Smart Construction; Dr. Jack C.P. CHENG described the ‘Opportunities of the BIM Technology for Modular Integrated Construction’. After a pleasure lunch, Dr. Hung-lin CHI introduced ‘the Applicability of Automatic Crane Motion Planning Approaches in Supporting Modular Integrated Construction’; then Dr. Jingke HONG gave us a wonderful presentation about ‘A Comprehensive Analysis of Prefabricated Building in China from Time, Cost, and Energy Perspectives’; Prof. Jian-guo DAI described ‘Development of Innovative Materials and Structural Systems for Sustainable Building Construction’; the last but not the least, Prof. Geoffrey Q.P. SHEN explained ‘Research and Development in Construction Industrialization: the way forward’ in detail.

In the late afternoon, speakers of the workshop were invited to attend a panel discussion for discussing the further collaboration on multi-aspects including research projects, prospects for development and some problems still need to be solved in the field of industrialization of modular construction. The afternoon closed forum session generated many lively discussions. Prof. Geoffrey Q.P. SHEN played a key role in the organization of the Workshop.



Panel Discussion



Group Photo