NUS Public Seminar by Professor Roger-Bruno RICHARD

“Smart Industrialised Building Systems
- more diversity, quality, sustainability and adaptability”

Programme

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<td>15:30-16:00</td>
<td>Registration and Refreshment</td>
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<td>16:00-16:30</td>
<td>“Innovation and Research in Prefabricated Prefinished Volumetric Construction” by Professor Richard LIEW, National University of Singapore</td>
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| 16:30-17:30  | “Smart Industrialised Building Systems
- more diversity, quality, sustainability and adaptability” by Professor Roger-Bruno RICHARD, Université de MONTRÉAL |
| 17:30-18:00  | Q&A                                                                     |

Date: Friday, 4 March 2016
Venue: EA Auditorium, Faculty of Engineering, National University of Singapore, 9 Engineering Drive 1, Singapore 117575
PDU: Pending
Admission: Pre-registration is required (free of charge)
To Register: Please click here or http://goo.gl/forms/cN9eh7OQhf to register.

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Synopsis

The construction industry has been pushing for higher productivity because of shortage of workers and restriction on quota for foreign workers. Prefinished prefabricated volumetric construction (PPVC) has shown the highest potential for productivity enhancement in building works. This special lecture is organised for practitioners and researchers who have interests in PPVCs.

When the strategies and technologies of Industrialization are properly applied to the delivery of buildings, the products are not standardized buildings but building systems: sets of parts and rules where standardized details are designed in order to generate different buildings responding to different programs on different sites.

DIVERSITY: the “Palette of Options” offers a wide range of systems, from the Site-Assembled Kits of Parts to the 3D Factory-Finished 3D Modules (like the PPVC approach actually applied in Singapore), including Hybrid solutions aiming at the best of the other two categories.

QUALITY: the main purpose of Industrialisation is to amortize processes capable of simplifying the production, through factory-intensive precision tooling allowing for a high level of quality control.

SUSTAINABILITY: quality control means longer lasting buildings by avoiding most of the deficiencies related to the handicraft approach carried out on a conventional construction site, altogether with a waste reduction of over 50%.

ADAPTABLE: precision tooling allows for mechanical (“dry”) jointing, fast and easy to install and to dismantle at the site, thereby allowing for partial or total reconfiguration or even relocation in order to accommodate change without demolition as per the sustainability agenda.

Profile of Invited Speaker

Professor Roger-Bruno RICHARD

Architect and Professor of Architecture
Université de MONTRÉAL

Visiting Researcher, Department of Architecture
The University of Hong Kong

Email: roger.richard@umontreal.ca

Roger-Bruno RICHARD, M.Arch. (Berkeley), Architect registered in Quebec (Canada), is Professor at the School of Architecture of the Université de Montréal and was Director of that School for a period of ten years (1989-1999). He notably served as President of the Canadian Architectural Certification Board (CACB) in 1997-98.

His research & development activities are focusing on industrialised strategies & technologies capable of simplifying the production in order to get high quality adaptable architecture available to the vast majority of people.
Roger-Bruno Richard developed several technological and functional innovations in housing, including passive solar buildings, manufactured prototypes and large scale projects in Africa, Asia and North America. He is the author of four “Load-Bearing Service Core” residential systems, hybrid solutions where the Service Area is concentrated in factory-made value-added 3-D modules acting as sole load-bearing structure to slabs / curtain walls / partitions generating the Served Area.

His Generic Classification of Industrialised Building Systems is recognized internationally and featured in several major publications. Roger was in residence at the University of Tokyo on a Research Fellowship granted by the Japanese Society for the Promotion of Science (JSPS) and is presently Visiting Researcher at the University of Hong Kong.

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Location Map