



# Public Lecture:

## Sustainability & Industrialisation: Partnership in Construction

### Professor Roger-Bruno RICHARD

Architect and Professor, Université de Montréal



#### Date:

28 February 2008  
(Thursday)

#### Time:

6:30 pm - 8:30pm  
(Reception: 6:30pm - 7:00pm)

#### Venue:

Room M1603  
Li Ka Shing Tower

#### Registration

Please contact  
**Ms Connie Yap**  
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or fax **2764 5131**  
for prior registration  
and enquiries.

#### Admission:

Free of charge.  
Prior registration is required.

#### Language:

English

#### Organized by:

Research Centre for  
Construction and Real Estate  
Economics  
Department of  
Building and Real Estate

The Hong Kong  
Polytechnic University

#### Abstract:

Wrongly applied, Industrialisation can be a source of heavy pollution; properly applied, the strategies & technologies of Industrialisation will improve the quality and reduce the costs of building. Industrialised Building Systems are probably the best partner Sustainability can find to meet its construction agenda:

- The large market they target will fractionise the investment in a process capable of simplifying the production, thereby requiring less energy and material than the traditional handicraft approach.
- Factory production means better quality control, thereby avoiding the defects and malfunctions frequently experienced with *in situ* construction.
- High precision tooling at the plant and fast dry-jointing at the site are providing components easily adaptable and demountable through space & time, thereby avoiding partial or total demolitions.
- Construction site waste and drawbacks can be reduced by more than 50%.

#### Biodata:

**Roger-Bruno RICHARD**, M.Arch. (Berkeley), Architect (OAQ), is Professor at the School of Architecture of the *Université de Montréal*, teaching Design / Technology / Housing and leading the graduate Design & Systems for Construction (DSC) profile; he was Director of that School for a period of ten years (1989-1999).

Specialized in Industrialised Building Systems, Roger-Bruno RICHARD is the author of several technological and functional innovations in housing, notably "Load-Bearing Service Core" systems, solar residential buildings and manufactured housing prototypes.

His research is aiming at industrialised strategies & technologies capable of simplifying the production and offering adaptability, in order to get quality architecture available to the vast majority of people. His Generic Classification of Industrialised Building Systems is notably featured as Chapter 3 of the book "Open Building Manufacturing: Core Concepts and Industrial Requirements" published in 2007 by the European "ManuBuild" consortium. Roger-Bruno RICHARD was recently in residence at the University of Tokyo on a Research Fellowship granted by the Japanese Society for the Promotion of Science.