



Department of Civil Engineering
The University of Hong Kong

HKIE THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會

THE FOURTH Y.K. CHEUNG LECTURE

Delightful Efficiency in Structural Design

Presented by Mr. Tristram Carfrae RDI Arup Fellow

7:00 p.m. November 1, 2011 (Tuesday) Rayson Huang Theatre, The University of Hong Kong



■ ABOUT THE SPEAKER

Tristram Carfrae is an eminent structural engineer. He is a member of the global Arup Group Board, and chair of the global Buildings Practice. He is one of sixteen Arup Fellows (out of a global staff of 10,000). This accolade honours those who have significantly contributed to the firm's reputation for excellence in innovation and design and designates him as a leader with the task of ensuring this continues.

He is responsible for the design of an impressive array of award winning buildings and is regarded internationally as a leading designer of sporting stadia and light weight long-span structures. Tristram is behind the design of The Water Cube - Beijing's National Aquatics Centre for the 2008 Olympics. He also boasts an impressive portfolio of other projects including: Helix Bridge, Singapore; AAMI Stadium, Melbourne, 1 Shelley Street, Sydney and Kurilpa Bridge, Brisbane.

In 2006 Tristram was appointed as a Royal Designer for Industry (RDI) by The Royal Society for the encouragement of Arts, Manufactures and Commerce (RSA) in recognition of his achievements in engineering design. He was also awarded the Milne Medal by the British Group of the International Association for Bridge and Structural Engineering (IABSE), which recognises his work as a

designer and his continuing contribution to design excellence. Tristram is a Fellow of the Academy of Technological Sciences and Engineering in Australia and was recently elected a Fellow of the Royal Academy of Engineering in Britain.

■ SYNOPSIS

In responding to increasing urbanisation, a growing population and finite resources, most structural engineers will be aware of the need to design structures that are sustainable. Yet there is a risk that, in our pursuit of sustainability, we forget the parallel need to improve our quality of life; to shape a world that is safer, healthier, has greater amenity and is more inspiring.

In his lecture, Tristram will expand on this assertion that structures should be designed to be both "delightful" and "efficient"; ones that contribute to a better, more sustainable world. Tristram will illustrate his approach to delightful efficiency with some of the projects he has recently helped design: AAMI stadium, Melbourne; Helix Bridge, Singapore; Kurilpa Bridge, Brisbane and Watercube, Beijing. In presenting these projects, Tristram will also discuss the importance of virtual design and the broader impact of Information Technology on the design, construction and operation of the built environment.

FREE ADMISSION – ALL ARE WELCOME

No prior registration is required. Attendance certificates will be available.

For further details, please contact: Ms. Bridget Lam

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