



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

**THE INSTITUTION OF
STRUCTURAL ENGINEERS**
英國結構工程師學會



JOINT STRUCTURAL DIVISION

Ir Y W Mak
Chairman

**A JOINT TECHNICAL MEETING OF THE STRUCTURAL DIVISION,
THE UNIVERSITY OF HONG KONG &
CENTRE FOR ASIAN TALL BUILDINGS AND URBAN HABITAT**



Concrete-Filled Tubular Columns

Date: 28 June 2005 (Tuesday)



CENTRE FOR ASIAN TALL BUILDINGS
AND URBAN HABITAT

Venue: Seminar Room, HKIE Headquarters
9/F., Island Beverley, No. 1 Great George Street, Causeway Bay, Hong Kong

Time: 5:45 pm - 6:15 pm (Refreshment)
6:15 pm - 7:15 pm (Talk)

Speaker: Prof. Xiao-Ling Zhao, Director of Research, Department of Civil Engineering,
Monash University, Australia

Synopsis: Concrete-filled tubes are widely used in buildings. This lecture addresses the recent development and design of concrete-filled tubular stub columns, columns and beam-columns. The following aspects will be covered:

- (a) Local Buckling in terms of the effect of concrete-filling on limiting width-to-thickness ratios and the combined effect of concrete-filling and large deformation cyclic loading on the limiting width-to-thickness ratios;
- (b) Strength in terms of section capacity and member capacity, and interaction of bending and compression; and
- (c) Fire resistance of concrete-filled tubular columns including the use of high performance high strength concrete.

Various standards and practical design guides will be presented. Discussion will also be made on concrete-filled double skin tubes and connections to concrete-filled tubular columns.

About the Speaker:

Prof. Xiao-Ling Zhao received his Bachelor and Master from Shanghai Jiao Tong University in 1984 and 1987 respectively. He obtained his PhD from The University of Sydney in 1993 followed by two years of post-doctoral research. He joined Monash University in 1994. Prof. Zhao has established an international reputation in the research into steel tubular structures. Many of his research findings have been incorporated in various steel design codes. Prof. Zhao is the Deputy Head and Director of Research in the Department of Civil Engineering, Monash University.

Enquiries: No registration is required.

For enquiries, please feel free to contact either

Ir Dr Francis Au at 2859 2650 (francis.au@hku.hk) or

Ir Joseph Mak at 2129 3003 (joseph.mak@housingauthority.gov.hk).

For updated information, please browse <http://home.netvigator.com/~hkiestdi/>.

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