Background: The Code of Practice for the Structural Uses of Steel 2005 Hong Kong, has been in use in Hong Kong for design of steel structures. Second-order analysis has been applied as a versatile and more reliable design tool than the first-order linear analysis and This seminar is about the second-order analysis and connection design of steel frames to the code with an introduction to the underlying basic principles to various clauses and it has been delivered twice as indoor seminar at Government departments.

Objectives: The aim of the course is to provide the practicing engineer with an introduction to the design of steel framed structures to Code of Practice for the Structural Uses of Steel 2005 Hong Kong. Both the conventional and advanced computer methods will be described. Students will be given an on-hand experience of using non-linear analysis computer Nida© for second-order analysis and design of complete practical steel frames which include the two award winning projects.

Who Should Attend: The course is designed for engineers in practice or associated with the Structural Engineering industry. It is also suitable for senior undergraduate and post-graduate students presently engaged in study and/or research in Structural Engineering. Engineers, who want to enhance their competitiveness in design skill for steel structures, are strongly encouraged to attend.

CPD Credit: The course is designed for 1 CPD day. A certificate of attendance will be available upon request.

Medium of Instruction: The medium of instruction will be in English.

References for Course:
A set of Lecture notes will be distributed. A trial version of Nida with limited capacity for second-order analysis of steel framed structure is also distributed to allow the students to obtain an on-hand experience on the new method.

Fee: HK$900 (includes course fees, a trial software, course notes and refreshments).

Further Information: For course content and technical information, please contact Professor S.L. Chan (Tel. 2766 6047), Course Speaker, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University.

Venue: Room N001, The Hong Kong Polytechnic University, Hung Hom, Kowloon.

Narrative Biography of Speaker:
Ir Professor S.L. Chan is now with the Department of Civil and Structural Engineering of The Hong Kong Polytechnic University. Professor Chan’s research interests include the stability analysis and design of steel, nonlinear finite element analysis, glass and slender skeletal structures, steel, bamboo and aluminum scaffolding and pre-tensioning steel structures. He has published more than 250 papers in journals, books, conferences and keynote/invited papers in major steel conferences overseas. His book, “Non-linear static and cyclic analysis of steel frames with semi-rigid connections, Elsevier, 2000, pp.336”, summarises his work in the area before 2000. Currently Professor Chan is the chief editor of the “Advanced Steel Construction”, “Steel and Composite Structures (2002-2005)”, an International Journal and “International Journal of Applied Mechanics and Engineering”. He also serves as a member of editorial boards in 7 other journals, and of ad-hoc committees in drafting guides for design of steel and glass structures in Hong Kong and the U.K. He was also selected as a member representing Hong Kong in the Research Panel of the Institution of Structural Engineers, U.K. and a member of expert panel of American Institute of Steel Construction (AISC), the President of the Hong Kong Institute of Steel Construction (HKISC) and adjunct professor at the Southeast University, Nanjing, Harbin Institute of
Application Form

Course: Second-order analysis & design of steel frames to Code of Practice for the Structural Uses of Steel 2005 Hong Kong. (2 June 2008)

Fee: HK$900 (includes course fees, course notes and refreshments).

Text: To be distributed by the speakers.

Name: Mr. / Ms. / Ir / Dr / Prof. __________________________ In Chinese: __________________________

Address: ____________________________________________

Employer's Name __________________________ Employer's Address: __________________________

Position Held: __________________________ Mobile No. / Tel. No.: __________________________

Email: __________________________________________

Please send application form with cheque* to Mr. Sam Chan, The Hong Kong Institute of Steel Construction c/o TU743 The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong (Tel.: 852-2766-6020 / 852-2766-6051, Fax: 852-2334-6389).

*Cheques should be crossed and made payable to Hong Kong Institute of Steel Construction Limited, fees are non-refundable. Places are limited; therefore, early application is strongly advised. The closing date for application is 21st May 2008 (Wednesday).