Modern buildings are often getting more complex in design both in terms of geometrical form, shape, spatial layout and size in order to fit the expectation of the investors, designers and users. How to construct these structures is a great challenge to be faced by engineers and contractors.

In this seminar the speaker tries to highlight some eye-catching examples of modern buildings in Hong Kong and China with such mentioned features. The technology and work set-up to construct these buildings will be a focus to illustrate in the talk.

Common features of large & complex building projects:
- With quite a large site area (say, at least 10000m² in size)
- Located within complicate work environment/neighborhood (e.g. within congested urban area, with complicated underground facility nearby, close to slope or even waters)
- super high-rise construction
- Incorporating with special structures (e.g. long-span, high-headroom, heavy elements, deep basement and complicated underground works ....)
- Complicated geometry (e.g. irregular shaped, multi-levels, inclined and curved structures, broken layout/spatial layout ....)
- Incorporate large amount of IT, energy-saving, green and environment-friendly design.

What the speaker wish to bring up in this talk:
1. An overall understanding about the meaning and technical significant of this kind of complicated projects
2. Broaden the eye-sight especially for those younger professional practitioners by letting them to see what have been done in HK and our neighbor cities in China.
3. Appreciate the works we can achieve based on the experience and innovativeness of the construction industry and efforts being made by all the involving professionals.
Representing building projects in China of large and complex nature:
1. International Finance Centre, Guangzhou
2. Chow Tai Fook Finance Centre, Guangzhou
3. Taikoo Hui, Guangzhou
4. Development of the World Expo facilities, Shanghai
5. White Magnolia Plaza, Shanghai
6. Samsung Tower Complex, Beijing

Making use of a series of photos taken at milestone stages, the speaker try to give audiences in this seminar an overview of how these projects were being delivered including some major features some-when dating almost back to Day 1 of the construction process.

What is so special about this kind contemporary projects of in China:
1. Super large-size in terms of land and building area
2. Many of them are of super high-rise nature
3. Involving numerous complex work space in complicated geometrical layout
4. Majority are constructed using structural steel
5. Site and work set-up is relatively in order and work efficiently.
6. Safety consciousness can be observed

Brief Highlight of the International Finance Centre Project, Guangzhou
The new city axis in front of the IFC, Guangzhou
Brief Highlight of the Chow Tai Fook Finance Centre Project, Guangzhou
Brief Highlight of the Taikoo Hui Project, Guangzhou
Brief Highlight of the Development of the World Expo facilities, Shanghai

Overview of Expo Zone A between late 2008 – early 2010

The Expo Boulevard, the main entrance to Expo venue in Zone A
Overview of Expo Zone D and E on Puxi in late 2008

Overview of Expo Zone D and E on Puxi in early 2009

Overview of Expo Zone D and E in early 2010

The same area one year before
The old ship yards and docks belonged to the Jiangnan Shipyard as seen in 2008

Decommissioning the site and preserved some of the old workshops as special themed pavilions in the Puxi area

Construction of the China Pavilion

Final finishing of the China Pavilion
Construction of the Culture Centre

Brief Highlight of the Development of the White Magnolia Plaza, Shanghai
Brief Highlight of the Samsung Tower project, Beijing
End of the 2\textsuperscript{nd} part of presentation about China project cases