Seminar | 7-9 November 2016 | Bangkok, Thailand | Workshop | 10-12 November 2016 | AIT, Thailand

OBJECTIVES

- Provide participants with an insight to the new developments in tall building design, innovative structural systems for better performance.
- In-depth understanding of structural behavior and highlight the value of wind tunnel tests, probabilistic seismic hazard assessment, peer reviews and performance-based design.
- Hands on understanding of modeling and analysis.

WHY ATTEND

- Five days of comprehensive seminar and customized hands on workshop plus 1-day site tour
- Platform for idea exchange, meeting colleagues, participate in discussions, learn the latest developments and innovations in design of tall buildings
- Learn from several case studies presented by experts
- Choose to attend any one, or all of the event days based on your interest

WHO SHOULD ATTEND

- Structural Designers, Engineers and Consultants
- CEOs and Managers in building industry
- Real-estate Developers
- Architects
- Master's and Ph.D. Students

THEMES & TOPICS

PART1 | 7 November

SEMINAR FOR DEVELOPERS, ARCHITECTS, STRUCTURAL DESIGNERS

New Developments in Tall Building Design

- Progression of structural design approaches (from performance to resilience)
- · Structural engineering solutions to architectural challenges
- Smart systems for structural response control
- Performance-based design, Value engineering, Peer review
- · Probabilistic seismic hazard assessment, Wind tunnel test
- Foundation design of tall buildings

PART 2 | 8-9 November

SEMINAR FOR STRUCTURAL ENGINEERS AND PBD CONSULTANTS

Understanding Structural Behavior

- Conceptual design (Structural system development)
- · Dynamic behavior of tall buildings
- Wind effects on tall buildings and wind tunnel test (explanation of detailed procedure)
- Probabilistic seismic hazard assessment (explanation of detailed procedure)
- Advanced analysis and modeling techniques

Performance-based Design

- Performance-based design (explanation of detailed procedure)
- $\bullet \ \textit{Important considerations in design of primary structural components}$

PART 3:10-12 November

WORKSHOP FOR STRUCTURAL ENGINEERS

General Analysis and Design

- Modeling Concept in ETABS 2016
- Review of overall response of tall building from ETABS model
- Wind analysis using wind tunnel test results
- Diaphragm design
- Slab foundation design in SAFE and in ETABS 2016
- Introduction to nonlinear time history analysis using Perform 3D

$Seismic\,Analysis\,for\,Maximum\,Considered\,Earth quake$

- Nonlinear modeling and analysis in Perform 3D
- Interpretation of analysis results from NLTHA

Site Visit and Technical Tours

- R&D for improving seismic performance in structure Lab
- Testing for wind effects on structures in wind tunnel
- First hand knowledge on design and construction of iconic buildings on buildings sites







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