

Engineering the tallest building in the area of high seismicity

Dienstag, 9. Oktober 2018
17:00 Uhr
Auditorium HIL E 1 (Lehrgebäude Bauwesen)
ETH Zürich, Hönggerberg, 8093 Zürich

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The Beijing CITIC Tower ("China Zun") is a 528 m tall office tower with 108 stories above ground and 7 stories below ground on a very congested site. Located in Beijing with high seismicity, its structural design is further challenged by the enlarged top which is unique in super high-rise buildings. The structural system is composed of a mega-structure at perimeter and a central core. Composite, concrete and steel members are used together to maximize the overall cost-effectiveness. Comprehensive analysis as well as shaking table test were carried out to verify the performance of the structure. Parametric structural modelling enabled fast-track evaluation in short time on significantly different schemes. After 7 years of design and construction, the tower is about to deliver at the end of 2018.

Anschliessend an den Vortrag ist ein gemeinsames Nachtessen mit dem Referenten im Restaurant Die Waid, Waidbadstrasse 45, 8037 Zürich vorgesehen.

Nächster Vortrag: Dienstag, 30. Oktober 2018, 17:00 Uhr, HIL E 1
Univ.-Prof. Dr.-Ing. Stefan Winter, TU München, Deutschland
«Industrialisierung im Bauwesen – Utopie oder Möglichkeit?»