

Environmentally Conscious Structural Design of High Rise Buildings

Dienstag, 24. September 2019
17:00 Uhr
Auditorium HIL E 1 (Lehrgebäude Bauwesen)
ETH Zürich, Hönggerberg, 8093 Zürich

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Greenland Nanjing Pukou Supertall, Nanjing, China

As designers of the built environment, we share responsibility for the environmental impact of the buildings we create. How can we affect change by designing in a more environmentally conscious manner? This presentation will focus on the opportunities for structural engineers to positively impact the projects that we work on and the techniques we can employ to do so. The presentation will focus on high-rise construction, being the dominant building typology of our urban environments, and the principal field of experience of the speaker. Presentation topics will include optimization techniques and innovations in structural systems and material use. Projects in focus will include the 600 m tall Greenland Nanjing Pukou Supertall, in Nanjing, China, which features a novel arched transfer structure, and the 501 m tall Greenland Xixian Silk Road International Center, in Xian, China, which includes an innovative supplemental damping system.

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

Nächster Vortrag: Dienstag, 8. Oktober 2019, 17:00 Uhr, HIL E 1
Dr. Miguel Ángel Astiz Suarez
“The River Barrow extradosed bridge in New Ross (Ireland)”