

3rd Bosphorus Bridge – Bridging continents

Dienstag, 19. März 2019
17:00 Uhr
Auditorium HIL E 1 (Lehrgebäude Bauwesen)
ETH Zürich, Hönggerberg, 8093 Zürich

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The Third Bosphorus bridge is considered as the future of transportation and commerce for Turkey, linking Europe and Asia. With a main span of 1'408 m, the bridge is a breakdown record for the world longest span for railway bridges, carrying 8 lanes of motorway and 2 lanes of railway on a single level deck.

The bridge is the first modern application of a hybrid cable system, a combination between a suspension and a cable stayed bridge. The governing reason to develop this concept was to make it possible to break the world record of combined road/railway spans with a very slender deck, and not with a classical double level truss deck. It was therefore possible to satisfy the clear wish of the authorities to respect the architecture of the two existing Bosphorus bridges.

The requirements insisted on an extremely short period of design and construction of 36 months. Such an extreme constraint had to be considered right from the beginning of the studies and the conceptual design did integrate the method statements for the construction as a key parameter.

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

Nächster Vortrag: Dienstag, 9. April 2019, 17:00 Uhr, HIL E 1
Dr. sc. h.c. ETH Max Meyer
"Caulfield – Dandenong Bahnkorridor in Melbourne"