

The new bridge over the Cadiz Bay. Design and construction challenges

Dienstag, 14. November 2017

17:00 Uhr

Auditorium HIL E 3 (Lehrgebäude Bauwesen)

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The new bridge over the Cadiz Bay, a singular 3092 m long structure with a main span of 540 m, provides the peninsular city of Cadiz with its third link to the mainland. Because of its prominent visibility from the city, the span distribution was a sensible issue and an uniformity between approach and main spans had to be ensured. That conceptual uniformity was not incompatible, however, with an efficient use of cross-sectional typologies and materials adapted to the spans and to the construction processes, such as the removable and simply supported 150 m span that allows the crossing of extraordinary tall vessels, the incremental launching of the composite deck at the Cadiz-end viaduct, or the balanced cantilever method used in the cable-stayed section. The bridge's main span is the largest in Spain and the third largest in Europe. It is also the second tallest bridge in the world regarding maritime vertical clearance.

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

Nächster Vortrag: Dienstag, 21. November 2017, 17:00 Uhr, HIL E 3

Prof. Dr. Mike Schlaich

"Die Yamunabrücke bei Wazirabad (und andere Schrägseilbrücken)"

Informationen: <http://www.ibk.ethz.ch/news/kolloquien>

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