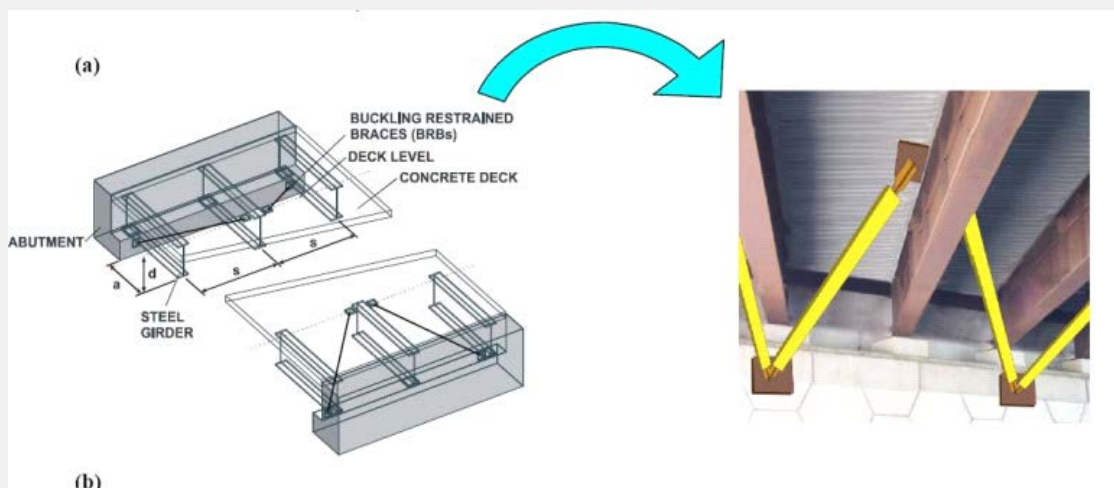


Buckling-Restrained Braces and Other Structural Fuse Strategies for Resilient Bridges

Dienstag, 18. Oktober 2016
17:00 Uhr
Auditorium HIL E 3 (Lehrgebäude Bauwesen)
ETH Zürich, Hönggerberg, 8093 Zürich

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Example Structural Fuse Concept: Bi-directional Bridge Diaphragm Concept Implemented with Buckling-Restrained Braces

In seismic design, bridges are typically designed such that seismic energy is dissipated by the hysteretic behavior of the columns. As these structural members provide resistance to both the lateral and gravity loads, permanent system deformations and damage following an earthquake would require repairs and possible temporary closure of the bridge. More resilient designs can be achieved by inserting structural fuses in bridges. This presentation will summarize recent research on strategies developed to provide resilient bridges, with emphasis on the use of buckling-resistant-braces, either in bridge bents or bi-directional ductile diaphragms.

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

Nächster Vortrag: Dienstag, 1. November 2016, 17:00 Uhr, HIL E 3
Prof. Dr. Christian U. Grosse, Technische Universität München
"Beton mit Selbstheilungseigenschaften
und welche Bedeutung zerstörungsfreie Prüfverfahren dabei haben"