

**Department of Civil Engineering and Engineering Mechanics  
Columbia University**



**The Bosphorus Crossing Tunnel Construction (Rail Link between  
Europe and Asia)**

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**Host: Prof. H. Ling**

The Bosphorus Project is a 76 km long \$US 3 billion metro and freight railway providing the first rail connection between Europe and Asia. The main structures and systems include a 1.4 km immersed tunnel, 9.8 km of TBM bored tunnels, 2.4 km of cut & cover tunnels, 3 underground stations, 37 surface stations with 250 km of new track, all supporting infrastructure and rolling stock. The construction program is 2004 - 2012. This talk will provide an overview of the project, and update construction progress on the immersed tunnel, bored TBM tunnels, and cut & cover station excavations in Istanbul.

**November 10, 2009 (Tuesday)**

**2:30 - 3:30 p.m.  
Room 627, Mudd**

<http://www.civil.columbia.edu/~ling/seminar>