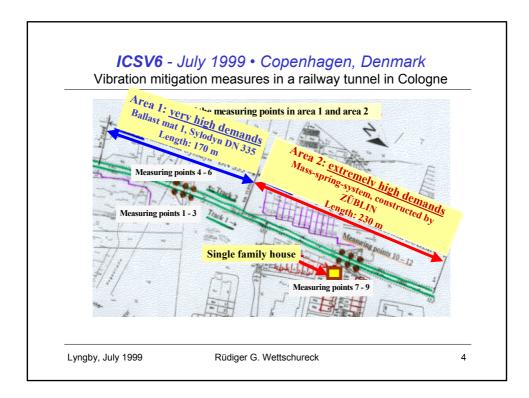
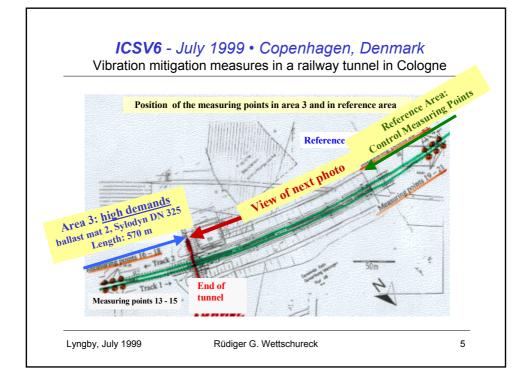
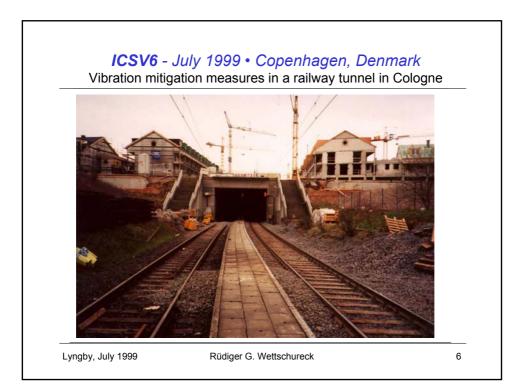
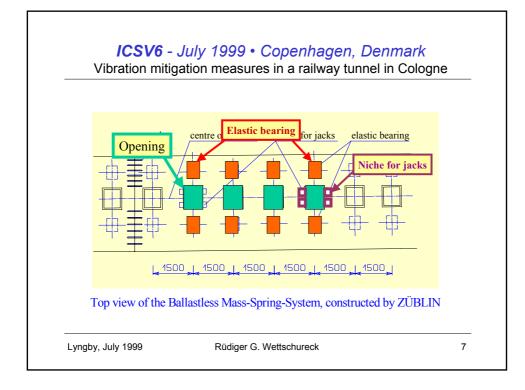


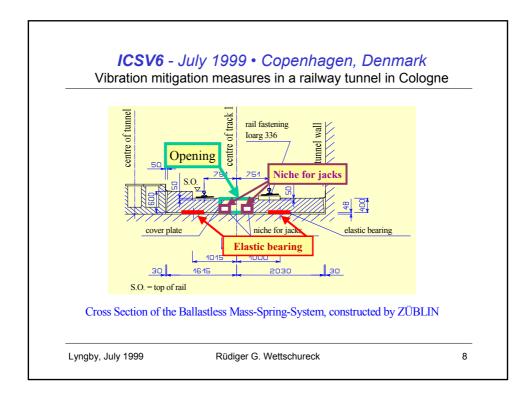
Description of track sections and installed vibration mitigation measures			
Area No.	Track position Demands	Vibration mitigation measure, Elastic element	Specification of elastic element
1	km 11.80 - 11.97 Very high	Ballast mat 1, Sylodyn [®] DN 335	Thickness: 35 mm Spec. static stiffness: 0.030 N/mm Spec. dynamic stiffness: 0.035 N/mm
2	km 11.90 - 12.20 Extremely high	Ballastless mass-spring-system, constructed by ZÜBLIN, with discrete elastic bearings Sylodyn [®] N 70690/50	Thickness: 50 mm Static stiffness: 14 MN/m Dynamic stiffness: 17 MN/m
3	km 12.20 - 12.77 High	Ballast mat 2, Sylodyn [®] DN 325	Thickness: 25 mm Spec. static stiffness: 0.030 N/mm Spec. dynamic stiffness: 0.045 N/mm

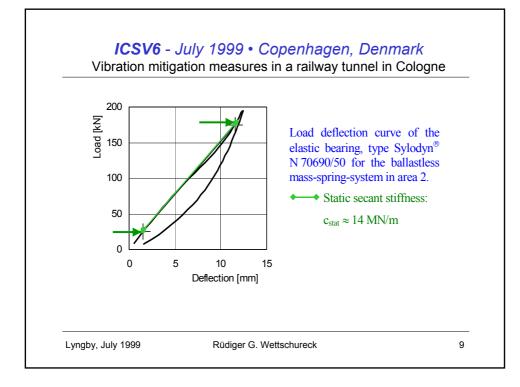


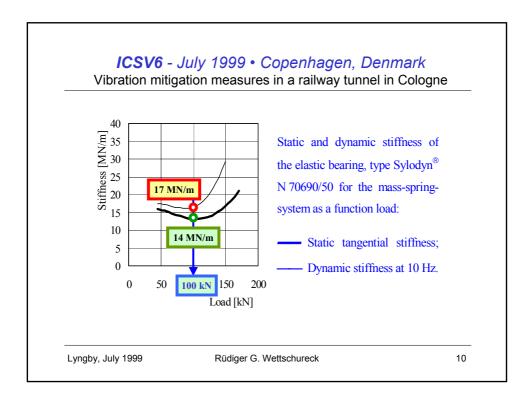


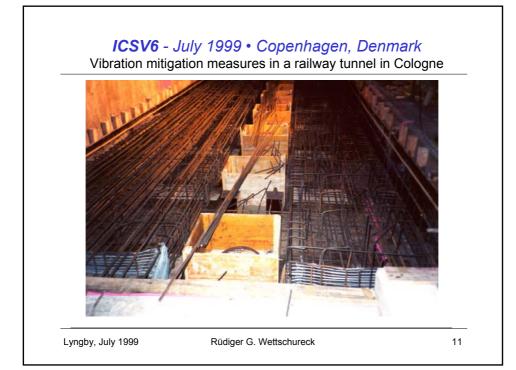


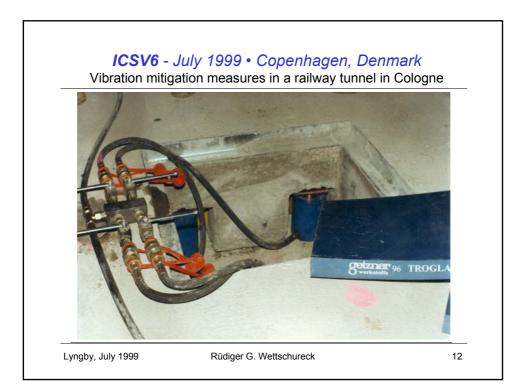














Lyngby, July 1999

Rüdiger G. Wettschureck

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