

NUMERICAL AND EXPERIMENTAL DYNAMIC ANALYSES OF WOODEN BRIDGE

The purpose of this Master Thesis project is to perform both experimental and numerical (FEM) analysis of the Vega footbridge located at Haninge (south of Stockholm). The objective is to characterize the dynamic behaviour of the bridge. The experimental study will be performed by exciting the bridge with an impact hammer and by measuring the accelerations at several points. Two important issues that will be investigated are:

- + If the natural frequencies and damping coefficients are seasonal dependent.
- + How to implement an accurate and efficient FE model for dynamic analyses.

Supervisors (KTH):

Roberto Crocetti, Jean-Marc Battini

For more information, contact:

Roberto Crocetti
crocetti@kth.se

Jean-Marc Battini
jean-marc.battini@byv.kth.se



Vega footbridge at Haninge.