



The Third Nordic Ground Vibration Day

- 09:15-10:00 Registration and Coffee
- 10:00-10:15 Introduction
- 10:15-11:15 **Bengt Broms lecture by Knut. H Andersen:** Soil behaviour under cyclic loading and its importance for foundation design – knowledge from offshore geotechnical engineering
- 11:15-12:15 News session
- 12:15-13:30 Lunch
- 13:30-15:00 Technical session part 1

Moderator: Lars Hall

Title: Numerical model for dynamic behaviour of an elevated railway line on soft soil

Authors: P. Buciskas & L.V. Andersen

Organization: *Aalborg University, Department of Civil Engineering, Denmark*

Title: Estimation of ground vibrations due to passage of high speed train using numerical simulation in both time and frequency domains

Authors: M. Bahrekazemi & M. Kaustell

Organization: *Golder Associates & Tyréns AB, Sweden*

Title: Fast numerical procedure for evaluating effect of different designs on railway induced vibrations

Authors: J. Park, A. M. Kaynia, K. Norén-Cosgriff & J. Johansson

Organization: *Norwegian Geotechnical Institute, Norway*

Title: Effect of soil-structure interaction on dynamic response of portal frame bridges on HSR lines

Authors: A. Zangeneh, C. Pacoste^{1,2}, C. Svedholm & R. Karoumi

Organization: *Royal Institute of Technology, Division of Structural Engineering and Bridges, Sweden*

Sponsorship:





15:00 -15:30 Coffee

15:30 -17:00 Technical session part 2

Moderator: Fanny Deckner

Title: Train induced ground vibrations on peat subsoil during speed increase tests

Authors: P. Salmenperä, J. Tuikka, J. & R, Hildebrandt

Organization: *Tampere University of Technology, Department of Civil Engineering, Finland*

Title: Evaluation of risk for comfort disturbances in a planned 11 story high building due to ground vibration from train traffic and analyses of reinforcement measures

Authors: L. Hall, A. Zangeneh & C. Pacoste

Organization: *ELU Konsult AB, Sweden*

Title: Vibration-reduction measures for mitigating traffic-induced ground vibrations

Authors: P. Persson & K. Persson

Organization: *Lund University, Division of Structural Mechanics, Sweden*

Title: Train induced vibrations at apartment building

Authors: J. Johansson, K. Norén-Cosgriff & Amir M. Kaynia

Organization: *Norwegian Geotechnical Institute, Norway*

17:00-17:30 Questions

19:00-22:00 Dinner

Venue: World Trade Center, Klarabergsviadukten 70 (adjacent to the Central Station) Stockholm

Sponsorship:

