

Programme

- 09:00 Registration and coffee
- 09:30 Welcome and introduction
 - Opening by Lars V. Andersen
- 09:40 The Bengt B. Broms Lecture
 - Ground vibration from high-speed lines on soft ground: site characterization, numerical modelling, and countermeasures
 Amir M. Kaynia, Norway
- 10:20 Quick coffee break

10:40 Session 1: Modelling and measurements of ground vibrations

- Measurement of the time-dependent pile shaft friction with high-strain dynamic and static pile load tests
 Anders B. Lundberg, ELU Konsult AB, Sweden
- Assessment of train-induced vibration propagation through a concrete structure based on vibration measurements and ad hoc theoretical models Alessandro Parodi, COWI A/S, Denmark
- Development of a stop-driving criterion for vibrodriven steel sheet piles definition of problem, results of full-scale field tests, production experiences and numeric attempts *Kenneth Viking, Trafikverket, Sweden*
- Effect of blasting on slopes with quick clay overview of ongoing activities *Jörgen Johansson, Norwegian Geotechnical Institute, Norway*

12:00 Lunch buffet at Navitas (including coffee for the Swedes)

- 13:00 News session
- 13:20 Session 2: Recent case studies of ground vibrations
 - Blast triggered landslide at Steinvik, Tana, Norway
 Samson A. Degago, Norwegian Public Roads Administration, Norway
 - Building damage due to vibration from rock blasting Karin Norén-Cosgriff, Norwegian Geotechnical Institute, Norway



- Interpretation of track alignment measurements in a geodynamic perspective Jonas Majala, Luleå University of Technology, Sweden
- Impact of ground vibration from passing trains to the nearby building Lindita Kellezi, Geo, Denmark
- Design approach regarding critical train speed according to the Swedish technical requirements: need for clarification and changes Mehdi Bahrekazemi and Tomas Bym, WSP Sverige AB, Sweden

15:00 Coffee and refreshments

15:30 Session 3: Recent advances in modelling and measurement techniques

- Prediction of train-induced vibrations: from track to building Jens Malmborg, Lund University, Sweden
- Train-induced vibrations in soil and structures using a mixed-frame-of-reference approach Paulius Bucinskas, Wood Thilsted Partners, Denmark
- Non-safe zones for train resonance an empirical approach Niels Mortensen, nmGeo, Denmark
- Advanced vibroexciter for big structures Force and displacement measured at excitation point and the excitation signal is free of choice Mats Hammarqvist, Efterklang: a part of AFRY, Sweden

16:50 Conclusion

- Final discussions
- Presentation of the venue for the 6th Nordic Ground Vibration Day (NGV 2024)
- Closure by Lars V. Andersen
- 17:00 End of technical and scientific programme
- 17:15 Walk & talk
- 18:30 Dinner at Fysisk Kantine (Main campus of Aarhus University)