

Mechanized and improved silviculture workshop
“Small machines for small trees”

November 14-15, 2018

Latvia, Riga & Salaspils & Incukalna

November 14 - Research result and idea sharing afternoon -

(LSFRI Silava, Riga street 111, Salaspils)

13 00 **Welcome and opening** (*Coordinator: Professor Rolf Björheden, Skogforsk, Sweden*)

Young stand management mechanization practice and challenges (Topic I)

- 13 10 -13 30 Recent studies of silviculture mechanization of first operations in forest regeneration in Latvia. (*Dagnija Lazdina LSFRI Silava, Latvia*)
- 13 30 -13 50 Empolyment in Estonian forest sector & recent developments in Estonian Forest Policy (*Meelis Teder, Estonian University of Life Sciences, Estonia*)
- 13 50 -14 10 Mechanized silviculture practice and challenges (*Timo Saksa, LUKE, Finland*)
- 14 10 -14 30 (Sweden Team of scientist and practitioners)
- 14.30 -14 50 Coffee, snacks

Recent research activities – adaption/ improvement of small machines and new prototypes (Topic II)

- 14 50 -15 10 Mechanized pre-commercial thinning by releasing conifer saplings from broadleaf-competition by uprooting (*Karri Uotila, LUKE, Finland*) Experience and challenges with Malwa
- 15 10 -15 30 Harvesters and Forwarders in Sweden (*Magnus Wallin, Malwa Forest AB, Sweden*)
- 15 30 -15 50 First Stage Evaluation of Flowcut, a Felling Head Designed for Boom-Corridor Thinning (*Örjan Grönlund, Skogforsk, Sweden*)
- 15 50 -16 10 Prototype Vimek DUO (*Johannes Nilsson, Vimek, Sweden*)
- 16.10 -16 20 Coffee, snacks

Silviculture mechanization and environment (Topic III)

- 16 20 -16 30 Use of fertilizers after forest tending operations (*Modris Okmanis, LSFRI Silava, Latvia*)
- 16 30 -16 50 The efficacy of *Chondrostereum purpureum* in the sprout control of birch in mechanized pre-commercial thinnings (*Tiina Laine, LUKE, Finland*)
- 16 50 -17 10 Potential role of compact-class machines in reduction of GHG emissions (*Andis Lazdins LSFRI Silava, Latvia*)
- 17 10** **Summary of day**

November 15 Field demo + indoor discussions

9 00 - 11 00 **Forest stands managed by small machines and real-time operations**
(Kārļzemnieki 4, Inčukalns)

Scientist and forest owner cooperative LV Mežs joint research activities – research results and operation in forest.

11.30- 12 30 **Lunch at Inčukalns** (Kārļzemnieki 4, Inčukalns)

Indoor session (Topic IV) Research results transfer to practice

12 30 – 12 40 Welcome words cooperative (*Agnese Trojanovska, LV Mežs, Latvia*)

12 40 – 13 00 Productivity, economic and environmental performance of the Malwa harvesting system in thinning (*Rolf Björheden, Skogforsk, Sweden*)

13 00 – 13 20 Research results - recommendations for practice (*Agris Zimelis, LSFRI Silava, Latvia*)

13 20 – 13 40 Forest Machine Operators Training Centre (*Roberts Keraitis, Forest and Wood Products Research and Development Institute, Latvia*)

13 40 – 14 00 Mapping of wet areas in forest using LiDAR and multispectral imagery (*Janis Ivanovs LSFRI Silava, Latvia*)

13 40 – 14 00 What else foresters needs to be mechanized... (*Edmunds Linde, LSF, Latvia*)

14 00 **Final discussion with coffee and cake**

15.00 **End of workshop**

transport to Airport or Riga city center



CAR: NB NORD in cooperation with:



Eesti Maaülikool
Estonian University of Life Sciences

