



Eesti Maaülikool
Estonian University of Life Sciences



Staff training event: Bee Diseases and Good Practices of Control



In the Estonian University of Life Sciences - ESTONIA
August 30 – September 3rd 2021

Training for use of gamification to assess and manage the beehive

40 Politécnico
de Viseu
40 anos



**Foster for beekeeping bridges through
innovative and participate training**



Co-funded by the
Erasmus+ Programme
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DAY 1 – MONDAY 30th OF AUGUST 2021

- **Arrival of participants, accommodation**
- **Joint dinner (for earlier arriving people) in downtown**





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DAY 2 – TUESDAY 31st OF AUGUST 2021



- **9.00 – 9.30** Gathering in EMU, coffee
- **9.30 – 11.30** First session
- **9.30 – 9.50** Greetings (Director of the Institute, Chair of Plant Health)
- **9.50 – 10.05** How much bee diseases affect beekeeping? – **Reet Karise**
- **10.05 – 11.00** Introduction to bee diseases - (which are important diseases) – **Risto Raimets**
- **10.40 – 10.55** Varroa management practices in warmer climate – **Beeb member**
- **10.55 – 11.10** Small hive beetle and *Vespa velutina* management in warmer climate – **Beeb member**
- **11.10 – 11.30** Year round colony management in different climates – **Risto/Sigmar** (cold climate) + **Beeb member** (warm climate)
- **11.30 – 13.00** Lunch in Muru + coffee
- **13.00 – 13.30** Drive to Rõhu Experimental Field Station of Estonian University of life Sciences
- **13.30-15.30** Practical visit to collect Varroa and Nosema samples, visual inspection for colony health conditions. Colony strength estimation. Constant weighing, temperature, moisture. Presence and quality of queen. Behaviour of bees as indicator of colony strength. – Risto Raimets and Sigmar Naudi
- **15.30-16.00** Drive back to campus
- **16.00-18.00** Coffee break + laboratory work to detect Nosema, microscopy preparation, estimation of results. – **Reet, Risto, Sigmar**
- **19.30** – Dinner in restaurant Püssirohukelder



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DAY 3 – WEDNESDAY 1st OF SEPTEMBER 2021

- **9.10 - 9.20** Drive to SUMILA apiary
- **10.30 - 12.00** Visit to SUMILA apiary. (Hygienic honey production, large scale apiary tools, etc.)
- **12.00-13.00 Lunch in Kohvik Õige Koht + coffee**
- **13.00-13.30** Drive to Kauksi
- **13.30-14.30** Local Action Group Peipsi-Alutaguse Chamber of Cooperation, experiences, success stories and problems to solve.
- **14.30-17.00** Brainstorming on challenges how to get beekeepers to increase their knowledge, developing the gamification (crosswords, mindmap...)
- **17.00 – 18.00** Drive back to Tartu
- **Joint dinner in downtown**





Staff training event: Bee Diseases and Good Practices of Control In the Estonian University of Life Sciences – ESTONIA DAY 4 – THURSDAY 2nd OF SEPTEMBER 2021

- **9.00 – 10.10** Drive to Olustvere
- **10.30 – 12.00** Visiting Olustvere School of Service and Rural Economics, HoneyHouse
- **12.00 – 13.00 Lunch in Olustvere**
- **13.00 – 13.30** Drive from Olustvere to Põltsamaa
- **13.30 – 14.30** Visit to Põltsamaa castle and activities they have there
- **14.30 – 15.10** Drive from Põltsamaa to Laeva
- **15.10 – 16.30** Walk in Laeva bog
- **16.30 – 17.10** Drive back to Tartu
- **Dinner if wanted**

Staff training event: Bee Diseases and Good Practices of Control In the Estonian University of Life Sciences – ESTONIA DAY 5 – FRIDAY 3rd OF SEPTEMBER 2021

- **Free day and departure**

