

The seminar on bark beetle taxonomy at NIBIO (Ås, Norway), 9–10 March 2023

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Many researchers work with bark beetles, but mostly on biology, forestry problems and economical influence of serious pest species. Few people however, work on taxonomy and nomenclature. In addition to a diminishing number of taxonomist, the average age of taxonomists is high. We might say that taxonomists deserve to be “red listed”. The aim of the meeting was simply to let taxonomists meet in persons and communicate directly.

On the 9 March an open day for all people interested in bark beetles and their importance in forestry was arranged at Norwegian Institute of Bioeconomy Research (NIBIO), Ås in Norway. Central topics were ongoing forest pest problems in European forests and the impact of the situation.

The program on 9 March:

- 10:00–10:15: Welcome by Torstein Kvamme (Chairman) and welcome greetings by Ingeborg Klingen (Head of the NIBIO department: Division of Biotechnology and Plant Health).
- 10:15–10:45: Åke Lindelöw (Sweden): Historically huge outbreak of the spruce bark beetle (*Ips typographus*) in Sweden 2018–2022.
- 10:45–11:15: Miloš Knížek (Czech Republic): Recent bark beetle situation in Czechia.
- 11:15–11:45: Lawrence Kirkendall (Norway): What we know and don't know about Neotropical pinhole borers anno 2023 (Coleoptera, Curculionidae, Platypodinae).
- 11:45–12:45: Break.
- 12:45–13:15: Massimo Faccoli (Italy): Outbreaks of the spruce bark beetle *Ips typographus* on southern Alps: situation and next evolution.
- 13:15–13:45: Mathias Justesen (Denmark): “The bark beetle situation in Denmark”.
- 13:45–14:15: Boris Hrašovec (Croatia): A decade of bark beetle fiesta triggered by climatic disturbances, new tree diseases and change of forestry practices in Croatian forestry.
- 14:15–14:45: Bjørn Økland (Norway): Monitoring of *Ips typographus* in Norway – current status.
- 15:15: Free discussion.

The 10 March was arranged as a specialist day with focus on taxonomy and nomenclature of bark beetles.

The program on 10 March:

- 10:00–10:15: Opening by Torstein Kvamme (Chairman).
- 10:15–10:45: Massimo Faccoli (Italy): Alien Bark and Ambrosia Beetles invading Europe.
- 10:45–11:15: Åke Lindelöw (Sweden): The genus *Trypophloeus* Fairmaire, 1864 – a challenge for bark beetle taxonomists.
- 11:15–11:45: Boris Hrašovec (Croatia): Less abundant or overlooked? Bark and ambrosia beetle bycatch in various trapping efforts and forest communities in recent years.
- 11:45–12:45: Break.
- 12:45–13:15: Mathias Justesen (Denmark): The European *Cryphalus* species.
- 13:15–13:45: Miloš Knížek (Czech Republic): Bark beetle species composition throughout history of the Czech lands.
- 13:15: Free Discussion.

After the two formal meeting days the taxonomists spent time together in the laboratories. Many had brought interesting specimens of bark beetles which could be seen by all, and the taxonomy discussed. For many participants this was the highlight of the seminar. Internet meetings are very good, but nothing can replace the personal meeting and direct dialog.

I am very proud that we can publish this proceeding together and support continuity of bark beetle taxonomy. I like to thank all the contributors and their generous sharing of specimens and knowledge. Special thanks to NIBIO for supporting the seminar in all ways. Finally Norwegian Entomological Society supported the printing of the proceeding economically. My hope is that someone will arrange a continuing meeting another time.

Thanks to all!
Torstein Kvamme
NIBIO



FIGURE 1. The invited speakers and the chairman of the seminar. From the left: Lawrence Kirkendall (Norway-USA), Mathias Just Justesen (Denmark), Massimo Faccoli (Italy), Åke Lindelöw (Sweden), Boris Hrašovec (Croatia), Torstein Kvamme (Norway), and Milos Knížek (Republic of Czechia) outside NIBIO, Ås. Photo M. Günther, NIBIO.



FIGURE 2. A. Two very focused taxonomists looking at specimens, Miloš Knížek and Mathias Just Justesen (to the right). Photo: Å. Lindelöw. B. A visit to the new insect collection at NIBIO. Photo: Å. Lindelöw. C. The social part is an important part of meetings Photo: T. Kvamme, NIBIO. D. A focused Bjørn Økland is presenting about the *Ips typographus* (L., 1758) situation in Norway. Photo M. Günther, NIBIO.



FIGURE 3. The invited foreign speakers of the seminar. **A.** Åke Lindelöw. **B.** Miloš Knížek. **C.** Lawrence Kirkendall. **D.** Massimo Faccoli. **E.** Mathias Just Justesen. **F.** Boris Hrašovec. Photos: M. Günther, NIBIO.