

12:30 - 13:30 Lunch

**08:00 - 09:00** Registration & coffee







# **FORECOMON Conference and Task Force Meeting of the ICP Forests 2024**

# Programme Tuesday, 11 June 2024

09:00 - 09:30	Opening / welcome
09:00 - 09:05	Opening of FORECOMON 2024
09:05 - 09:10	Welcome by host country, Czech Republic
09:10 - 09:15	Welcome by host institution, Forestry and Game Management Research Institute
09:15 - 09:20	Welcome by ICP Forests Chair
Session 1: L	ong-term forest ecosystem processes as affected by air pollution, drought or other extreme weather events
09:30 - 09:45	<b>D. Pitar et al.:</b> Air quality in European forests – ozone and nitrogen dioxide trends in the ICP Forests level II network
09:45 - 10:00	<b>J. Foest et al.:</b> Rising summer temperatures dampen masting of European Beech (Fagus sylvatica) across range
10:00 - 10.15	Y. Sun et al.: Crown density, growth and carbon sequestration in European forests over the period 1990-2022
10:15 - 10:30	H. Hartmann et al.: Monitoring forest damage to shape future forests
10:30 - 11:00	Coffee break
11:00 - 11:30	Poster pitch, 19 posters, there is one minute for the poster presentation
11:30 - 11:40	G. Delhaye et al.: Spatiotemporal drivers of ectomycorrhizal diversity in Europe
11:40 - 11:50	P. Žemaitis et al.: Norway spruce health and vulnerability in Lithuania – wind, decay and Ips typographus as the main drivers
11:50 - 12:00	<b>P. Krám et al.:</b> Soil water dissolved organic carbon patterns at spruce sites with geochemically contrasting substrate in the last three decades
12:00 - 12:10	S. Etzold et al.: 25 years of forest growth in Swiss Level II plots
12:10 - 12:20	<b>T. Dirnböck et al.:</b> Multi-decadal drought and disturbance effects on forest carbon sequestration in a mountain forest landscape
12:20 - 12:30	Further questions to all session 1 speakers

### Session 2: Novel monitoring approaches to support the development of resilient forests

- **13:30 13:45 R. Shackleton et al.:** Towards Advanced Forest Inventory and Monitoring (AIM): A Swiss example
- **13:45 14:00 C. Guidi et al.:** From litter to soil carbon harmonizing soil carbon stock estimates for a common European forest monitoring system
- **14:00 14.15 R. Guerrieri et al.:** Quantifying tree canopy nitrification across European forests by combining stable isotope and molecular analyses
- **14:15 14:30 M. A. Anthony:** From soils to canopy: a call to collaborate to disclose foliar microbiome diversity and function
- **14:30 15:00 Poster pitch,** 13 posters, there is one minute for the poster presentation
- 15:00 15:30 Coffee break
- **15:30 15:40 J. Černý et al.:** Optimisation of the measurement design for precise Green Leaf Area Index (GLAI) estimation by gap fraction methods in mature Norway spruce stands
- 15:50 16:00 A. Principe et al.: Scaling up tree mortality and survival in Mediterranean oak woodlands
- 16:00 16:10 T. Molnár et al.: Satellite-based forest health survey on ICP Forest Level II plots in Hungary
- **16:10 16:20 E. Gril et al.:** Forest microclimate: how to quantify and predict the temperature buffering capacity of canopies
- **16:20 16:30 N. Knapp et al.:** From single trees to country-wide maps: Modeling tree mortality across Germany based on level I data
- 16:30 16:40 Further questions to all session 2 speakers
- 16:40-17:00 Mentimeter survey and end of orals

## 17:00-18:00 Poster session with refreshments

#### **Posters**

Session 1: Long-term forest ecosystem processes as affected by air pollution, drought or other extreme weather events

- 1. **Buculei et al.:** Assessment of atmospheric deposition in context of climate warming in Romanian forest ecosystems
- 2. **Cuciurean et al.:** Phenophase dynamics of European beech and Sessile oak in the intensive forest monitoring plot of Mihăești, part of the Level II ICP Forests network
- 3. **Damnjanović et al.:** Changes in forest floor P availability in an unmanaged mountain spruce forest after bark beetle-induced tree dieback: A 15 years study from Šumava mountains
- 4. Fadrhonsová et al.: Development of soil chemistry on Level II plots in the Czech Republic
- 5. **Galić et al.:** First Data of Carbon Dioxide (CO2) Emission from Soil in Two Level II Monitoring Plot in Serbia
- 6. **Gottardini et al.:** Pollen deposition in throughfall samples at sixty ICP Forests plots throughout Europe
- 7. **Göttlein et al.:** 35 years of monitoring at "Höglwald" Documentation of chemical climate change and its impact on the ecosystem

- 8. **Ingerslev et al.:** Temporal trends in nitrogen and sulfur throughfall fluxes and soil solution concentrations
- 9. **Kaňa et al.:** Changes in soil phosphorus availability in unmanaged spruce forest after bark beetle attack from dieback to recovery
- 10. Marra et al.: Investigate the effect of soil water depth on ozone-induced visual foliar injury
- 11. **Nikagolla et al.:** On the relationship between forest status following bark-beetle disturbance and mineral nitrogen in soils of unmanaged mountain catchments: long-term in situ monitoring
- 12. **Pitar et al.:** Measured vs modelled: ozone concentrations in the Romanian forest plots (ICP-Forests Level II and LTER)
- 13. Popa et al.: Intra-annual tree growth patterns in level II ICP Forests plots from Romania
- 14. Rybár et al.: Development of Mortality Rates in Carpathian Temperate Forests
- 15. **Smart et al.:** Fifty years of change across forest ecosystems in Britain: a story of interacting drivers and historical legacy effects
- 16. **Tahovská et al.:** Response of soil microbes to long-term nitrogen input in spruce forest: results from Gårdsjön whole catchment N-addition experiment
- 17. **van Straaten et al.:** Transformation of Forest Humus Forms in Northwest Germany Across Three Decades
- 18. Wohlgemuth et al.: Environmental impacts on foliar nutrient trends of ICP Forests Level II data
- 19. **Zolles et al.:** Analysis of the effects of soil parameters on radial stem growth for four spruce stands in Austria

#### Session 2: Novel monitoring approaches to support the development of resilient forests

- 20. **Češljar et al.:** Identification of the decline of individual trees due to the impact of drought using a database (Defoliation) as a "health card" of previous events
- 21. **Fririon et al.:** Can Silviculture Foster Forest Genetic Evolution? A Demo-Genetic Modelling Approach Accounting for Within-Stand Individual Variability Estimated from ICP Forest Data
- 22. **Gollobich et al.:** Comparison of open land precipitation regimes with forest stand precipitation regimes and calculation of interception rates on the ICP-forest core plot "Klausenleopoldsdorf"
- 23. **Hůnová et al.:** Ambient ozone behaviour near the ground: Insight into seven-year continuous measurements at a rural Central European site tall tower
- 24. Korakaki et al.: Chlorophyll contents and their relationships with nutrients and  $\delta 13C$
- 25. Krasylenko et al.: Monitoring of the European mistletoe distribution based on remote sensing data
- 26. Lukovic et al.: Al-assisted time-series analysis
- 27. **Mc Kenna et al.:** Investigating the relationship between crown defoliation and remote sensing indicators of vitality at the single tree level
- 28. Meusburger et al.: How water isotopes can improve predictions of the water balance
- 29. **Michopoulos et al.:** Arsenic and Cadmium in the Hydrological Cycle and Soil in a Maquis Broadleaved Evergreen Forest Stand in Greece. Sources of Some Uncertainties
- 30. **Novotný et al.:** Impacts of ground-level ozone on vegetation in Czechia assessment using visible foliar symptoms, AOT40F and MDA
- 31. **Schmitz et al.:** Underestimation of potassium in forest dry deposition? A simulation experiment in rural Germany
- 32. Vejpustková et al.: Monitoring of tree growth with different types of dendrometers