



# SwissForestLab ScienceDay

## 16<sup>th</sup> January 2026

### University of Berne

## Event Program

08:00 - 09:00

### Registration

#### Session 1 Chair: Bernhard, Fabian

09:00 - 09:05	1.0	Gessler, Arthur	Welcome by the Chairman of SwissForestLab
09:05 - 09:10	1.1	Bernhard, Fabian	Introduction to Geocomputation and Earth Observation (GECO) lab (Inst of Geography, University of Bern)
09:10 - 09:40	1.2	Luyssaert, Sebastiaan	<b>Keynote:</b> Continental scale forest management: think global, act local
09:40 - 09:55	1.3	Paul-Limoges, Eugenie	Managing Swiss forests towards net zero in a changing climate
09:55 - 10:10	1.4	Etzold, Sophia	Decreasing water availability reduces productivity in Swiss forests along an altitudinal gradient
10:10 - 10:25	1.5	Zhou, Yu	Atmospheric Deposition Outweighs Dryness in Regulating European Ecosystem Productivity
10:30 - 11:00	<b>Coffee break</b>		
11:00 - 11:15	1.6	El-Mejjaouy, Yousra	Detecting physiological drought impacts on ecosystem physiology from multispectral, thermal, and meteorological remote sensing data
11:15 - 11:30	1.7	Rog, Ido	Increased belowground tree carbon allocation in a mature mixed forest in a dry vs. a wet year
11:30 - 11:45	1.8	Guidi, Claudia	Drivers of soil organic carbon from temperate to alpine forests: a model-based analysis of the Swiss forest soil inventory
11:45 - 12:00	1.9	de Jong, Philipp	Interactions between earthworm species enhance litter-derived carbon stabilization in the mineral soil
12:00 - 13:45	<b>Lunch Break</b>		

**Session 2** Chair: Lachat, Thibault

13:45 - 13:50	2.0	Lachat, Thibault	Introduction to Forest Ecology lab (Bern University of Applied Sciences BFH)
13:50 - 14:05	2.1	Buchmann, Nina	Soil, below-canopy and ecosystem CO <sub>2</sub> and CH <sub>4</sub> fluxes and their drivers in a subalpine spruce forest
14:05 - 14:20	2.2	Ehming, Merten	Four Decades of Forest Development in the Context of Nitrogen Eutrophication and Climate Change
14:20 - 14:35	2.3	Chen, Liangzhi	Multiyear droughts and ecosystem responses – A global look
14:35 - 15:00		<b>Coffee break</b>	

15:00 - 15:15	2.4	Gessler, Arthur	What if we could reconstruct tree metabolism and explore how environmental factors influence it through tree rings?
15:15 – 15:30	2.5	Lukovic, Mirko	Point dendrometer and climate data processing with temporal convolution networks

**Poster Pitches**

15:30 - 15:35	2.6	Wright-Osment, Nicholas	Measuring Carbonyl Sulfide Fluxes for Enhanced Insight into Carbon Dynamics in a Mixed Forest
15:35 - 15:40	2.7	Bernhard, Fabian	Model-data fusion of daily ecosystem fluxes and forest inventories with a dynamic vegetation model
15:40 - 15:45	2.8	Haoyu, Diao	Contrasting photosynthetic, stomatal, and mesophyll mechanisms drive common reductions in leaf water-use efficiency under blue light
15:45 - 15:50	2.9	Schneider, Pascal	Early Warning Signals for Tree Mortality: A Review of Indicators, Limitations, and Emerging Opportunities
15:50 - 17:00		<b>Poster Session &amp; Apéro</b>	