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**Involvement in the COST Action: Member of MC, Member of WG3**Research interest

Wood protection in general, service life modeling of wood products, in-service performance, wood durability, wood coatings, wood mycology – staining fungi and moulds, development and testing of new surface treatments and preservation systems, LCA.

Specialized technique and methods available in my lab

- Standardized tests: EN84, EN113, ENV807, EN252, ENV 12037 Lap-joint, EN927-3 (6)
- Artificial weathering – Atlas UVtest
- Pilot scale scientific impregnation plant
- FT-IR, FT-NIR, HPLC (high pressure liquid chromatography), GC-MS
- TGA (thermo gravimetric analysis), ICP (Inductively coupled plasma mass spectrometry) and STA-GCMS-FTIR (Simultaneous thermal analysis with gas analyses with Gas chromatography-mass spectroscopy and Fourier transform infrared spectroscopy)
- Molecular methods; real-time PCR, gene expression
- Various wood chemical analyses
- Access to CLSM / SEM / TEM /EDX (<http://www.umb.no/microscopy>)
- Bomb calorimetry for energy measurements
- Access to wood mechanical properties testing facilities and CT scanner

[http://www.skogoglandskap.no/filearchive/brosjyre\\_01\\_10\\_laboratorietjenester\\_ved\\_fagseksjon\\_treteknologi.pdf](http://www.skogoglandskap.no/filearchive/brosjyre_01_10_laboratorietjenester_ved_fagseksjon_treteknologi.pdf)

Additional comment

The Wood Technology Section deals with the properties of wood in the broadest sense. The Section performs research and development in fields such as wood quality and properties, wood-based products and production processes, timber supply and bioenergy. An important field of research is the development of new, environment-friendly wood-protection methods. The section is working on the improvement of existing methods, but is also trying to develop new methods for the testing, evaluation, development and quality assurance of wood protection systems and products. Wood is a renewable energy source. We are developing a system to ensure the supply, conversion (to half-finished products such as pellets) and distribution of wood as an efficient energy carrier. The section is continuously involved in doctoral student training, teaching assignments at the Norwegian University of Life Sciences (UMB) and extensive international research collaboration.