

Name First Name: Mr ARNOLD Martin

Function: Group Leader 'Wood technology / Surface technology'

Affiliation: Empa, Swiss Federal Laboratories for Materials Science and Technology, Wood Laboratory

Address: Überlandstr. 129

Postal Code, City: CH-8600 Dübendorf

Country: SWITZERLAND

Email: martin.arnold@empa.ch

Website: <http://www.empa.ch/wood>

Involvement in the COST Action: Member of MC, Member of WG1-3, Financial Rapporteur

Research interest

- Weathering durability of wood and wood coatings
- Functionalization of wood surfaces (e.g. by use of nanotechnology)
- Wood modification
- Wood science and technology

Specialized technique available in my lab

Lab equipment for

- natural weathering (exposure site)
- artificial weathering (QUV)
- standard surface analysis and assessment of weathering degradation, including light- and electron-microscopy
- 'advanced' methods like FTIR, surface energy, DTMA, DVS etc.
- (out-of-lab) access to the broad range of analytical and testing facilities of a well-equipped material testing institute

Additional comment

Empa is an interdisciplinary research and services institution for material sciences and technology development within the ETH Domain (Swiss Institute of Technology). Empa's research and development activities are oriented to meeting the requirements of industry and the needs of the society, and link together applications-oriented research and the practical implementation of new ideas, science and industry, and science and society.

The Wood Laboratory of Empa combines scientific and engineering methods to develop new knowledge and innovative concepts for an optimised performance of structural timber, engineered wood products and wood based composites.