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Involvement in the COST Action: Member of WG2

Research interest

Study of the interaction between wood and polymeric products, such as adhesives, and between wood and its environment of preservation; development and evaluation of bio-adhesives for structural or semi-structural applications; reinforcement of timber structures by using structural adhesives; evaluation of relationships between extractives and wood surface characteristics.

Specialized technique available in my lab

Lab equipment for

- Characterisation of wooden structural assemblies (e.g. glulam and Xlam) by means of mechanical (shear, compression, flexure etc.) and delamination tests
- Conventional and spectroscopic (FT-MIR) quantitative evaluation of wood chemical components
- Interphase characterisation by means of macroscopic (e.g. shear tests, Dynamic Mechanical Analysis) and microscopic (e.g. ESEM) techniques

Additional comment

The Sesto Fiorentino Unit of CNR-IVALSA covers research topics on a broad range of activities, starting from in-vitro conservation and micro-propagation of plants, and xylogenesis, to arrive to wood technology, technological development of wood and wood-based products, innovative timber building techniques, and also protection of the wooden Cultural heritage. Activities dealing with wood are divided among 4 Units: Wood Anatomy, Wood Chemistry, Biodegradation and Preservation, Wood Mechanical Properties.

Please indicate your availability and willingness to engage yourself in a study or measurements for other members of the Cost Action FP1006 as part of a collaborative study/project and possibly a common peer review paper.

YES No