

An offer for STSMs within the COST Action FP1006

Poznan University of Life Sciences (PULS), Faculty of Wood Technology

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Poznań University of Life Sciences



Department	Research activity	Scientific projects
<p>Institute of Wood Chemical Technology contact: bartsimp@up.poznan.pl</p>	<p>Natural wood durability, Evaluation of wood preservatives or coatings effectiveness – mycological properties, Physiology of wood destroying fungi and microfungi, Natural environment aspects, Fire protection, Biocide-free wood treatments, Thermal and oil heat treatment, Wood chemical analysis – FTIR, AAS, GC-MS</p>	<p><u>Ongoing projects:</u> Potential possibilities to enhance wood durability with the use of organosilanes in wood preservative-decorative formulations. Guanidine carbonate - an assisting component to the operation of modern firertardants for lignocellulosic materials. Biotechnological conversion of glycerol to polyols and dicarboxylic acids. Emission of volatiles from imported exotic wood species and volatile metabolites during its biodegradation Bringing new functions to wood through surface modification <u>Recent projects:</u> Non-toxic wood preservatives containing animal proteins and organic compounds. Effects of thermal modification parameters on properties of poplar and beech wood.</p>
<p>Department of Wood Gluing and Finishing contact: tomkrys@au.poznan.pl</p>	<p>Modification of adhesive and lacquer resins, Rheological properties, wettability and adhesion of lacquer products and adhesives, Determination of strength and resistance of glue lines, Aesthetic-decorative features of lacquer, Resistance of lacquer to mechanical, thermal and chemical factors, Durability of glue and lacquer to accelerated ageing.</p>	<p><u>Ongoing projects:</u> Researches of the classification of glued construction element from domestic pine wood of different bases of raw material. <u>Recent projects:</u> Adhesive materials based on silans to be used in laminating technologies of surfaces of panel elements with foils and edges in furniture industry. Researches of gluability of Scots pine wood protected with chosen salt agents.</p>