



SLOVAK REPUBLIC



TECHNICAL UNIVERSITY IN ZVOLEN
Faculty of Wood Science and Technology

The objective of international cooperation:

- Continuation in building relations with foreign partners and institutions
- Actively participation in international scientific organizations and international scientific projects

TECHNICAL UNIVERSITY IN ZVOLEN

Faculty of Wood Science and Technology

The key aspects of international activities:

- Participation in educational process and research and development projects with foreign partners
- Development of international cooperation through participation in international programs
- Mobilities of students and academic staff within the framework of ERASMUS, TEMPUS and other



Country: Slovakia

January 2014

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List of ongoing international research projects:

COST Action IE0601

Wood Science for Conservation of Cultural Heritage

COST Action E 53

Quality control for wood and wood products



COST FP1303: Performance of bio-based building materials

- Slovak - Chinese Research and Development Cooperation
Optimization of wood drying processes
 - Slovak - Czech Research and Development Cooperation
Fire Fighting in the natural environment of appropriate techniques in terms of environment acceptance
 - Slovak-Ukrainian Research and Development Cooperation
Modern energy saving technology of plywood production from veneer with higher moisture content
 - Slovak - Polish Research and Development Cooperation
Survey of consumer attitudes towards wood products
-

The main objective of research activities at the Faculty of Wood Sciences and Technology during the year 2007-2013:

- **“Effective and ecological valuation of raw wood material”**

in the following areas:

- Quality of wood and other lignocellulosic materials
- Development of wooden material and products
- Interaction of wood with other substances and forms of energy
- Energetic use of wood
- Production of final wood products and wood constructions
- Economic, market and marketing aspects of use of wood and system management of production processes and innovations

The Development Workshops and Laboratories of the Technical University in Zvolen (since 1971)

- Total area of 8 100 m²
- The main mission: to create conditions for activities in educational process, in scientific research, to put into practice the results of scientific research
- Fully equipped engineering workshop: veneer and plywood production (lathe, clipper, press, ...), particleboard and fiberboard production (chippers, dryer, pre-press, press, ...)

Mechanical Properties Testing



Pressing



Pressing



Adhesive Spraying



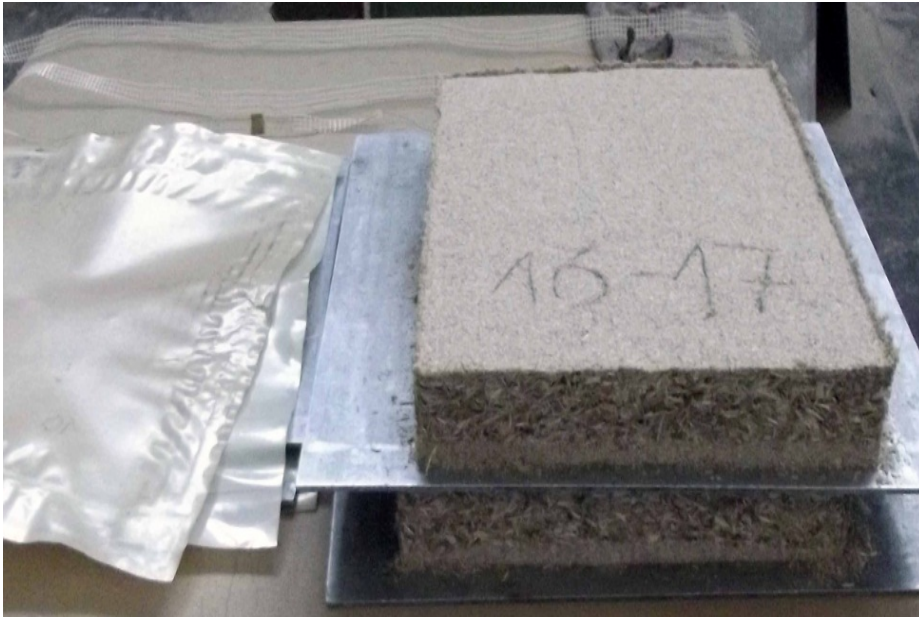
Mat Forming



Pre-pressing



Mats of Boards Prepared for Pressing



Equipment for Temperature and Heat Gradient Measuring during Pressing



Specialist equipment

January 2014

	Properties						Environmental				
INSTITUTE	Natural Durability	Moisture / sorption studies	Resistance to mould	Fire resistance / reaction to fire	Insect /termites / pests	Dimensional stability	Life Cycle Assessments	Whole Life evaluations	Product accreditation	Emission testing	Environmental Product Declaration (EPD)
Technical University in Zvolen	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No

Specialist equipment

January 2014

	Laboratory tests						Field tests				
INSTITUTE	Natural Durability	Mould resistance	Insect /termite testing	Leaching / weathering	Sorption studies	Dimensional stability	In ground contact tests	Out of ground contact tests	Natural weathering	Surface performance / coatings	Moisture data logging
Technical University in Zvolen	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes



SOCIETY OF WOOD SCIENCE AND TECHNOLOGY

P.O. Box 6155
Monona, WI 53716-6155

The 57th SWST International Convention

- will be held: June 23-27, 2014 in Zvolen, Slovakia

The Convention will be held in conjunction with:

- 7th Wood Structure and Properties Conference
- and the 6th European Hardwood Conference