

## LIGNOVISIONEN

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Issue 9



## Proceedings of the COST Action E44 Conference

# Broad Spectrum Utilisation of Wood

Edited by  
Alfred Teischinger and Joris Van Acker

in Co-operation:  
COST - European Co-operation in the field of  
Scientific and Technical Research  
Action E44 - Wood Processing Strategy

### **Primary Wood Conversion Processes**

Tree Quality leads to processing trees using saw milling for timber, chipping into particles and peeling or slicing trees into veneer. Decision on selecting one of these options in respect of further processing is both related to the forest resource itself and the end products envisaged. Quality of raw materials is defining the possibilities and profitability for further processing.

### **Integrated Processing of Forest Products**

Integrated processing of forest products can use different strategies to combine primary wood conversion processing. These combinations are based on sorting and grading of logs and sawn timber but also as innovative options for secondary processing of a primary processing product.

### **Mixed Stand and Mixed Species Processing**

New forest strategy approaches will lead to more mixed stands in the future. New options for the utilisation of mixed stand and even mixed species processing will become essential.

### **Processing in Relation to Tree Dimensions and Partitioning of Trees**

Processing of small diameter logs into sawn timber components is an important topic for future economics of whole stem processing. This will also have to deal with problems induced by the presence of juvenile wood, spiral grain, reaction wood, ... Large dimension trees will deed new options for processing or as part of it and even the total tree use strategic factors in the broad spectrum utilisation of wood.

### **COST-aided**

COST is an intergovernmental European framework for international co-operation between nationally funded research activities. COST creates scientific networks and enables scientists to collaborate in a wide spectrum of activities in research and technology. COST activities are administered by the COST Office.

## Preface - LIGNOVISIONEN Issue 9

### **COST Action E 44 Conference: Broad Spectrum Utilization of Wood**

The main objective of the COST Action E 44 "Wood Processing Strategies" is to increase the knowledge required to create a wood processing strategy in Europe. A wood processing strategy defines the options and decisions related to forestry and wood industry in order to match the goals and requirements of both. This COST Action will stimulate and co-ordinate information necessary for the development of a European processing strategy. The strategy is envisaged as being developed under 4 topics or themes:

- Wood as a renewable resource
- Broad spectrum utilization of wood
- New perspectives for wood utilisation
- End use related properties of wood products

After a first workshop on "wood as a renewable resource" at Växjö-University/Sweden in autumn 2004, the current conference at BOKU University, Vienna, focuses on "broad spectrum utilisation of wood".

The primary conversion process comprises 3 main technologies that are directly linked to tree quality: milling for solid timber, chipping into particles, peeling or slicing for veneers. Integrated processing for forest products can use different strategies to combine primary wood conversion processes. New options for the utilisation of mixed stands and even mixed species processing will become essential.

In three sessions and an additional poster session the following topics will be covered by the conference:

- Tree quality and processing
- Economic and consumer parameters
- Species and applications

The organiser hopes, that with this conference and the present proceedings a further important issue in the wood processing chain will be discussed and documented.

Alfred Teischinger  
Editor - LIGNOVISIONEN

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### Primary Wood Conversion Processes

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### Mixed Stand and Mixed Species Processing

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