

COST E53 Conference

End user's needs for wood material and products

29th – 30th of October 2008
Delft, The Netherlands



Hosted by

Delft University of Technology
Faculty of Civil Engineering and Geosciences
Timber Structure and Wood Technology
www.tudelft.nl

Description

This conference addresses the improvement of existing and the development of novel methods and techniques for fast and accurate quality assessment along the forestry wood chain. Special attention is given to:

- A) scanning of round wood for inherent wood properties
- B) determination of moisture content and distortions
- C) assessment of strength, stiffness and visual appearance of timber and wood products.

Organising and advisory committee

Robert Kliger, *Sweden*
Arto Usenius, *Finland*
Hans Welling, *Germany*
Charlotte Bengtsson, *Sweden*
Wolfgang Gard, *The Netherlands*
Jan-Willem van de Kuilen, *The Netherlands*
Geert Ravenshorst, *The Netherlands*

Venue & Secretariat

Delft University of Technology
Faculty of Civil Engineering and Geosciences
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Downloads: www.timber.citg.tudelft.nl.

Registration

To register for the conference use the registration form attached or download from: www.timber.citg.tudelft.nl.

Please email your registration to the email address of the local organizer J.H.Meijer@tudelft.nl.

Deadline for registration: 15th of September 2008

Participation fees

Conference Fee is € 240.--

Including Conference Proceedings, Conference Dinner, Lunches, Refreshment & Coffee and Study Tour with Dinner.

Conference dinner for accompanying person € 60.--

Payment is possible only in cash at the registration desk, (no credit card will be accepted). An invoice will be delivered upon request.

Accommodation

To arrange you accommodation please visit the following website:

www.delfthotels.nl or www.delft.com.

Since Delft is a major tourist attraction, it is recommended to book hotel rooms early.

Also the cities *Rijswijk, The Hague (Den Haag)* and *Rotterdam* are in a convenient distance to Delft and can be reached by public transport.

How to reach Delft?

Nearby Airports:

Amsterdam Schiphol Airport (49 km)

Frequent trains running to Delft (45 min.).

For timetables visit www.ns.nl

Rotterdam Airport (7 km)

A taxi service to Delft is available.

See also www.timber.citg.tudelft.nl.

Conference Language

The official conference language is English.

Financial support



Brookhuis Micro-Electronics BV



Wednesday, 29th of October 2008

Provisional paper and poster program

Morning Plenary Session

Welcome/opening

- Key position of timber manufacturer in the chain of end users' quality needs. *Jouko Silen*
- Key position of timber traders in the chain of end users' quality needs. *Jan Nico Wilkens*
- Discoloration of wood in the living tree and during processing. *Koch, G.*
- Visual strength grading supported by mechanical grading. *Frese, M.*
- Application and quality requirements of (tropical-) hardwoods *Wesselink, A.; Ravenshorst, G.*

Afternoon 1st parallel session

Quality aspects

- Almost all wooden pieces have a damaged surface layer. Impact on some properties and quality. *Salin, J-G.*
- Potential Advantages of Curve Sawing Hardwood Logs. *Araman, Ph. Bond, B.*
- Effect of manufacturing on the quality of Rounded Dovetail Joints. *Anastas, H. Tannert, T. Lam, F.*
- Significance of raw material quality for finger jointing of knot free boards. *Eliasson, L.*
- The Round Wood Amount, Quality and Prices in Lithuanian State Forests in 2002 – 2007. *Marius Aleinikovas*

Application

- Structural timber in urban construction: Architects' perceptions. *Kristian Bysheim, Anders Q. Nyruud*
- Aspen timber for architectural design. Aspects of aesthetics and ecology. *Inger Norell*
- New business models and marketing designs for the Nordic saw milling industry – Hypotheses for Marketing Nordic Wood Products and a SWOT analysis. *Lei Wang, Jari Kärrnä, Heikki Juslin*
- Some specific Dutch wood end use problems and chances. *René K.W.M. Klaassen*

Schedule

- 09.00-12.00** Morning Plenary Session
- 13.00-16.45** Afternoon parallel Session
- 16.45-17.00** Closing Session
- 17.30-18.30** Task Group Meeting
- 19.30-23.00** Dinner in Delft

Afternoon 2nd parallel session

Drying related

- Detection of Wet-pockets in Hemlock Using, Near Infrared Spectroscopy. *Foster Hart, Stavros Avramidis, Shawn Mansfield*
- Oscillation drying of beech timber – Initial experiments. *Goran Milić, Branko Kolin*
- Thermal treatment in saturated vapour pressure for Spruce. *Allegretti Ottaviano, Cividini Rodolfo, Tessadri Barbara*
- A low cost method for determination of wooden board distortion. *Rastislav Lagaňa*

Quality Assessment

- Quality assessment of standing trees using 3D Laserscanning. *G.R.M. van Goethem, J.W.G. van de Kuilen, W.F. Gard*
- Ring width detection for industrial purposes - use of CT and discrete scanning technology on fresh roundwood. *Franka Brüchert, Rafael Baumgartner, Udo H. Sauter*
- Assessment of conformity to essential requirements for safety of products from woodworking industry in the republic of bulgaria. *J. Mihailova, V. Savov*
- Colour modelling as a tool for wood grading. *Richard Hřčka*
- Digital technology utilization for objective specification of coloured space of wood chips for the purpose of delignification process man aging. *Mamonová Miroslava, Geffert Anton, Mamon Miroslav*

Thursday, 30th of October 2008

08.00 MC Meeting

All day Study Tour with presentations on site

09.00 Start

- Wooden applications in residential area
- Drying operation for beech
- Watergate structures
- Shipyard 'De Delft' in Rotterdam
- Timber Applications in Road and Hydrologic Structures. *J.-W. van de Kuilen*
- Super heated steam drying of Beech in Dutch operations. *Gard, W.F.*

19.30 Dinner

Afternoon 3rd parallel session

Grading related

- Non destructive evaluation of stiffness properties of cross-laminated solid wood panels. *Steiger, R. Gulzow, A. Gsell, D.*
- Mechanical properties of Polish-grown Pinus silvestris L. structural sawn timber. *Ślawomir Krzosek, Marek Grzeskiewicz, Martin Bacher*
- Stiffness and strength of 45x95 mm beams glued from Norway spruce using 8 different structural models. *Keijo Heikkilä, Henrik Heräjärvi*
- Comparison of different machine strength grading principles. *Martin Bacher*
- Grading and testing of Maritime pine and Larch roundwood. *Telmo F. M. Morgado, João N. A. Rodrigues, José Saporiti Machado, Alfredo M. P. G. Dias*
- Larch round timber assessed in accordance to prEN 14544:2006. *Peter A. de Vries, Wolfgang F. Gard*
- The method of stress wave measurements in quality control for the strength properties of untreated and modified wood. *G.J.P Raven shorst*
- Adaptive Adjustment of Grading Machine Settings. *Markus K. Sandomeer, Jochen Köhler, Michael H. Faber.*
- Strength grading and the end user – lessons from the SIRT project at Napier University. *John Moore, Dan Ridley-Ellis, Andrew Lyon*
- Allocation of Thermally Treated Structural Beech Timber to the European Strength- Classes and Relevant Grading and Quality Control Procedures. *Robert Widmann*