

EUROPEAN THERMOWOOD AND TMT WORKSHOPS 2003–2023

1st European Thermowood Day

9 May 2003, Dresden

- **Wood modification processes – overview**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Oil heat treatment of wood**
G. Menz, Menz-Holz Ehrenberg-Reulbach
- **The Stellac Technology**
T. Lallukka, Stellac Oy, Mikkeli/FI
- **Biological testing of wood and wood-based materials**
K. Plaschkies, Institut für Holztechnologie Dresden gGmbH
- **Modification of hardwood**
W. Ohnesorg; H. Mitteramskogler, Thermoholz Austria, Gaf-lenz/AT
- **About the Plato Process**
C. van Leusden, Plato International BV/NL
- **Thermowood – products from Finland**
B. Dinger, Finnforest Deutschland GmbH; O. Männistö, Stora Enso Timber, Deutschland GmbH
- **Planning and design of playground equipment**
B. Schäfer, Federal Association of Playground Equipment and Recreational Facility Manufacturers; ABC-Team Spielplatzgeräte GmbH, Ransbach-Baumbach

2nd European Thermowood Workshop „10 Years of Thermowood“

6–7 May 2004, Dresden

- **Introduction; project „Thermowood for wooden playground equipment“**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Work on thermally modified wood**
F. Bächle; P. Niemz; K. Junghans, ETH Zürich/CH
- **Heat-treated wood – properties for window construction**
A. Krause; H. Militz, Georg-August University of Göttingen
- **Health and environmental relevance of HTW**
J. Hanger; R. Lackner; B. Zimmer, FH Holztechnikum Kuchl/AT
- **Resistance of thermowood to microorganisms**
K. Kruse; S. Kühn, Institut für Holztechnologie Dresden gGmbH
- **Thermowood from Russia**
J. Schanze, Barkett GmbH
- **Loaded thermowood**
M. Gut; H.-J. Burger, WaxWood GmbH
- **Thermowood: References and Characteristics in Europe**
T. Saarainen, Finnish Thermowood Association
- **Technical Properties of Thermowood**
D. Mayes, Stora Enso
- **Plant technology for thermally modified wood**
T. Lallukka, Stellac Oy
- **Reports on realised thermowood projects**
M. Despang; K. Krogmann, Despang Architekten; Krogmann Ing.-Holzbau GmbH
- **Developing market potential among architects**
K. Luig; U. Rummel, 3L Plan, Menden

3rd European Thermowood Workshop „Thermoflooring“

2–3 June 2005, Dresden

- **Do thermowood floors meet the requirements for wooden flooring?**
Dr. R. Emmler, Institut für Holztechnologie Dresden gGmbH
- **Coating and surface finishing of thermowood**
Dr. H. Engelking, OSMO Holz und Color GmbH & Co. KG
- **Emissions from thermowood – a problem for indoor spaces?**
K. Aehlig, Institut für Holztechnologie Dresden gGmbH
- **Bonding of thermowood**
M. Illing, Forbo Erfurt GmbH
- **Development work and product innovation in the company**
W. Beikircher, Thermoholz Austria GmbH
- **Thermowood Quality Control and Auditing System in Finland**
H. Tuukkala, Finnish Thermowood Association/FI
- **Thermowood / Thermally Modified Timber (TMT): classification and quality mark**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Thermowood building elements for passive house construction**
C. Stölzel, Variotec Sandwichelemente GmbH & Co. KG
- **Experience with thermowood in the timber trade**
R. Schlegel, Franz Habisreutinger GmbH & Co. KG
- **Communication with architects „step by step“**
K. Th. Luig, 3L Architekten + Industriedesigner

4th European Thermowood Workshop „Thermowood makes the leap“

2–3 February 2006, Leipzig

- **Why do we need a Quality Control System?**
N. Bergström, Stora Enso Timber
- **Functioning of TMT chambers**
M. Lausch, MAHILD Drying Technologies
- **Concept and planning of a thermowood plant from an energy-management perspective**
Dr. M. Gohla, Fraunhofer IFF
- **Quality assurance of TMT – European technical specification and quality mark**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Global Architectural Potentials of Heat Modified Wood**
Prof. M. Despang, University of Nebraska–Lincoln/US
- **Long-term experience in the use of thermowood**
Prof. Dr. P. Niemz, ETH Zürich/CH
- **Production and properties of thermowood at Balz Holz**
Prof. Dr. P. Niemz, ETH Zürich/CH
- **Sales development of thermo-beech in Germany**
R. Huth, B&L Marktdaten GmbH
- **How thermowood sells itself (almost)**
M. Ewert, Institut für Holztechnologie Dresden gGmbH

5th European TMT Workshop/2nd INS Workshop „Standardisation of TMT“

24–25 April 2008, Dresden

- **TMT in 2008: production, markets, standardisation**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Standardisation as a strategic instrument**
A. Schleifer, DIN
- **Plywood and moulded plywood components made from thermally modified veneers**
L. Blüthgen; T. Schulz, Institut für Holztechnologie Dresden gGmbH
- **Moulded plywood components made from thermally modified veneers for exterior use**
I. Avar, OWI
- **ThermoWood: Situation Report, ThermoWood Concept**
J. Ala-Viikari, Finnish ThermoWood Association
- **Developments in the hardwood sector**
H. Mitteramskogler, MIRAKO
- **Experiences from Estonia**
T. Tamm, TreTimber
- **Presentation of the TMT/TexWood network**
K. Müller, BTI Dresden
- **Solid wood panels made from thermally modified wood**
A. Weber; D. Krug, Institut für Holztechnologie Dresden gGmbH
- **Market launch of thermowood windows**
K. Schweitzer, Institut für Holztechnologie Dresden gGmbH
- **Durability of TMT: results of field testing**
K. Plaschkies; K. Jacobs, Institut für Holztechnologie Dresden gGmbH
- **New Thermally Modified Architecture**
Prof. M. Despang, Despang Architekten/University of Nebraska/US

6th European TMT Workshop

6–7 May 2010, Dresden

- **Development of the TMT sector since 2008**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Thermally modified veneers for decorative purposes**
B. Buchelt; Dr. A. Pfriem, TU Dresden
- **Properties of Croatian Heat Hardwood Floorings**
Prof. H. Turkulin, University of Zagreb/HR
- **Quality and production control of TMT**
Prof. B. Zimmer; H. Bächle, FH Salzburg/AT
- **Improving Surface Wettability of Thermally Modified Timber**
J. Rahel, Comenius University, Bratislava/SK
- **Firmolin – gentle thermal wood modification**
W. Willems, Firmolin, Venray/NL
- **MENZ OHT – 10 years of experience with oil heat treatment**
B. Koch, Menz Holz
- **The future of timber trade – Leyendecker Concept 2020**
E. Steffen, Leyendecker, Trier; Prof. B. Scheufele, Hochschule Reutlingen
- **Thermally modified veneers for plywood and moulded plywood components**
T. Schulz, Institut für Holztechnologie Dresden gGmbH
- **New light-protection concepts for TMT in interior applications**
Dr. M. Beyer, Institut für Holztechnologie Dresden gGmbH
- **Biological durability of thermally modified woods**
K. Plaschkies, Institut für Holztechnologie Dresden gGmbH
- **Investigations on hygrothermally treated wood (WTT process)**
A. Tausch, TU Freiburg
- **Thermowood specialist group in the BSHD**
K. Kottwitz, Bundesverband Säge- und Holzindustrie Deutschland e.V.
- **Xterior – combination of modification and hydrophobisation**
H. Kiefel, tilo, Lohnsburg/AT
- **Architectural TMT News**
Prof. M. Despang, University of Nebraska/US

7th European TMT Workshop

26–27 April 2012, Dresden

- **Quality control of TMT – international research activities and trends**
Dr. C. R. Welzbacher, IBW, Hannover
- **Methods for determining the treatment quality of thermo-wood**
M. Altgen, Georg-August University of Göttingen
- **Initiative for quality assurance of thermowood**
R. Buchmann, Menz Holz, Reulbach
- **Vacuum-pressure-steam: universal possibilities with a new plant**
J. Krottenthaler, Holzbodenwerk Krottenthaler, Michelsneukirchen
- **TMT: current situation in France**
G. Negrie, FCBA, Paris/FR
- **New aspects of property improvement of wood from deciduous trees**
V. Biziks, Latvian State Institute for Wood Chemistry, Riga/LV
- **Safety-relevant and thermal properties of wooden floors and floorboards**
Dr. R. Emmler, Institut für Holztechnologie Dresden gGmbH
- **Designing outdoor spaces with wood**
S. Ney, FreiraumObjekte Sabine Ney, Dresden
- **Life cycle assessment for determining environmental indicators of wood products**
S. Diederichs, vTI – Johann Heinrich von Thünen-Institut, Hamburg
- **TMT in window construction: status and prospects**
K. Schweitzer, Institut für Holztechnologie Dresden gGmbH
- **Requirements for structural timber in conservatories**
F. Wurm, Wintergarten Fachverband e.V., Rosenheim
- **Technical approval procedures for load-bearing components and facades**
J. Gecks, Institut für Holztechnologie Dresden gGmbH
- **Effects of the new wood protection standard DIN 68800:2011 on the use of TMT**
B. Weiß, Institut für Holztechnologie Dresden gGmbH
- **Wooden decking: construction and material**
DI C. Koch, Holzforschung Austria, Vienna/AT
- **Overseas Architecture Experiences**
Prof. M. Despang, Architect Dresden/Munich/Hannover/DE + Professor University of Arizona/US; M. Sarkozi, Idaho Forest Group + MBH Architects California/US

8th European TMT Workshop

22–23 May 2014, Dresden

- **Cracking in TMT: problem and possible solutions**
P. Flade, Institut für Holztechnologie Dresden gGmbH
- **Thermally treated solid wood panels for facades**
J. Bonigut, Institut für Holztechnologie Dresden gGmbH
- **Surface characteristics of TMT and their influence on coating adhesion**
Prof. Dr. H. Militz, Georg-August University of Göttingen
- **Durability of thermally modified wood in seawater**
Prof. Dr. A. Rapp, Leibniz Universität Hannover
- **Quality assurance – predictability of TMT durability**
L. Clauder, Eberswalde University for Sustainable Development
- **Performance classification of wood in construction – CEN/TC38 and the path ahead**
Dr. E. Suttie, BRE Sustainable Materials, Watford/UK
- **EU Timber Regulation (EUTR): requirements for companies and effects on modified woods**
P. Barth, Entwicklungs- und Prüflabor Holztechnologie GmbH, Dresden
- **EU Construction Products Regulation (CPR): everything new?**
R. Spiekers, Tischler Schreiner Deutschland, Federal Guild Association, Berlin
- **EU instruments for research and innovation of the wood sector**
G. Verhaeghe, InnovaWood, Brussels/BE
- **Thermal Modification: Current developments in the U.S. and Canada**
M. Aro, University of Minnesota Duluth/US
- **The Hawaiian/Bavarian TMT (r)evolution**
Prof. Dr. N. Park, Prof. M. Despang, School of Architecture University of Hawaii/US

9th European TMT Workshop

26–27 May 2016, Dresden

- **TMT in the year 2016 – an update**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **Influence of heat-pressure steaming on the property profile of common oak**
Prof. T. Volkmer, Bern University of Applied Sciences, Biel/CH
- **Changing wood properties through thermal modification in a closed reactor system**
M. Altgen, Georg-August University of Göttingen
- **Plants – technology developments in the modification process**
E. Briotto, BIGonDRY srl, Cartigliano/IT
- **Influence of sample size during heat treatment on properties of softwood – comparison of laboratory and industrial scale**
B. Källander, Stora Enso Industrial Components, Falun/SE
- **Influence of temperature and dwell time during TMP refining on hygric and chemical MDF properties**
C. Wenderdel, Institut für Holztechnologie Dresden gGmbH
- **Chemical and structural changes in thermally treated hardwoods**
N. Horváth, University of West-Hungary, Sopron/HU
- **Corrosion of fasteners in thermally modified timber – final report after 13 years exposure outdoors**
J. Schalnat, SP Trätek, Stockholm/SE
- **Slipperiness of TMT flooring boards: species, sealers, test methods**
Prof. H. Turkulin, University of Zagreb, Zagreb/HR
- **Resistance to wood-destroying fungi: performance spectrum of TMT**
K. Plaschkies, Institut für Holztechnologie Dresden gGmbH
- **Use of thermally modified woods in musical instrument making**
Dr. M. Zauer, Technische Universität Dresden; Prof. A. Pfriem, Hochschule für nachhaltige Entwicklung Eberswalde
- **Practical experience with thermowood/TMT for load-bearing components of noise barriers**
H. Hilderink, H&S Lärmschutzanlagen Holzbau Consult Hilderink, Nordhorn
- **Design and construction with TMT: The architect's perspective**
Prof. M. Despang, University of Hawai'i, Honolulu/US

10th European TMT Workshop

3–4 May 2018, Dresden

- **TMT in the year 2018 – an update**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **ThermoTreat 2.0 – the process: high-pressure/low-temperature selective hydrolysis**
P. Klaas, WTT A/S, Brande/DK
- **ThermoTreat 2.0 – the product: fungal durability, EMC, and pH**
T. M. Venås, WTT A/S, Brande/DK
- **It's the internal values that matter – tracking down problems with smoked oak & co.**
Dr. F. Kettner, Institut für Holztechnologie Dresden gGmbH
- **Dispersion adhesives for plywood made from thermally densified pine veneers**
A. Bernaczyk, Institut für Holztechnologie Dresden gGmbH
- **Planned European emission classes for construction products – effects on products for indoor use**
M. Broege, Institut für Holztechnologie Dresden gGmbH
- **New concepts for colour stabilisation of dark and thermally modified woods**
Dr. L. Passauer, Institut für Holztechnologie Dresden gGmbH
- **Production of rosewood substitute wood for fingerboards of electric bass guitars (Paero)**
Dr. M. Zauer, Technische Universität Dresden
- **Decking – facades – garden timber: product types and market distribution**
F. Zeller, German Timber Trade Association, Berlin
- **Thermal modification of bamboo**
W. Mangold, Moso International BV, Zwaag/NL
- **Production and properties of TMT decking made from eucalyptus**
M. Wentzel, Georg-August University of Göttingen
- **Installation of TMT facades: fundamentals, experience and useful information**
M. Ewert, HOKA GmbH, Berlin
- **Kebony decking and technical approval – development of a general technical approval**
S. Lande, Kebony A/S, Oslo/NO
- **Properties and potential of double-modified wood for maritime applications**
Dr. G. Behr, Wolz Nautic GmbH & Co. KG, Gaukönigshofen

11th European TMT Workshop

2–3 March 2023, Dresden

- **TMT in the year 2023 – an update**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH
- **TMT manufacturing and application in France – a survey and new opportunities**
Prof. P. Gerardin, Université de Lorraine, Nancy/FR
- **TMT beyond the Atlantic: activities in thermal modification in the Americas**
M. Lausch, MAHILD Drying Technologies, Nürtingen
- **Comparison of different modification processes for treatment of eucalyptus**
Prof. H. Militz, Georg-August University of Göttingen
- **Densification and thermal curing of resonance wood**
T. Dietrich, Technische Universität Dresden
- **The sound of thermowood: award-winning guitars made from TMT**
A. Hanika, Hanika Gitarren, Baiersdorf
- **EMC as a quality control parameter in TMT**
P. Klaas, WTT A/S, Grindsted/DK
- **Durability testing of thermally modified timber: methods and results**
K. Jacobs, Institut für Holztechnologie Dresden gGmbH
- **Microbial discolouration of outdoor timber: phenomenon and importance**
K. Plaschkies, Institut für Holztechnologie Dresden gGmbH
- **Twenty-five years of experience with TMT projects**
M. Ewert, HOKA GmbH Germany, Berlin
- **Role of modified wood in the German timber trade**
F. Zeller, German Timber Trade Association GD Holz, Berlin
- **A new practical guide for wooden decking**
DI C. Koch, Holzforschung Austria, Vienna/AT
- **Conclusions and summary**
Dr. W. Scheiding, Institut für Holztechnologie Dresden gGmbH