

**The Fifth European Conference on Wood Modification, ECWM5, September 20-21, 2010, Riga, Latvia
Tentative Programme**

Sunday 19 September	
16:00-18:30	REGISTRATION - Hotel Radisson Blue Hotel Latvia, Elizabetes str. 55
19:00-19:30 19:30-21:00	RECEPTION - Riga Cathedral, Doma square 1 (www.doms.lv) Museum of the History of Riga and Navigation, Palasta str. 4 (www.rigamuz.lv)
Monday 20 September	
8:00-8:30	REGISTRATION
8:30-8:55	Welcome and Opening Address – Bruno Andersons and Holger Militz
8:55-9:15	Introduction to the Latvian Forest Industry – Kristaps Klauss
Session One: Economics and Products Session Chair: Waldemar Homan and Holger Militz	
9:15-9:30	Material Evaluation and Product Performances of Beech Wood Modified with 1,3-dimethylol-4,5-dihydroxyethyleneurea (DMDHEU) - Susanne Bollmus, Peter Rademacher, Andreas Krause and Holger Militz
9:30-9:45	Acetylated Wood in Structural Applications - Ferry Bongers, John Alexander, André Jorissen, Hans J. Blaß and Callum Hill
9:45-10:00	Reinforcement of Thermally Modified Wood for Use in Highly Stressed Components of Musical Instruments – Mario Zauer and Alexander Pfriem
10:00-10:15	Modified Wood Entering New Markets – Findings in Wales and Portugal and How They May Affect Other Countries - Dennis Jones, Julia Carmo, Edo Kegel and Jane Davies
10:15-11:15	Coffee and Poster Session
Session Two: Chemical Modification Session Chair: Holger Militz and Boke Tjeerdsma	
11:15-11:30	The Reaction Kinetics of Acetic Anhydride with Different Wood Species - Callum A.S. Hill and Jin Heon Kwon

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11:30-11:45	Influence of Acetylation, Moisture, and Heat Flux on Reaction to Fire in Cone Calorimeter Tests of Pine (<i>Pinus sylvestris</i> L.) Wood - Andris Morozovs and Edgars Buksans
11:45-12:00	Production of Acetylated Wood Fibre: Part 1: Refining Acetylated Chips; Part 2: Exploding Acetylated Chips; Part 3: Acetylation of Chips in a Refiner - Roger M. Rowell
12:00-12:15	Effect of Glutaraldehyde Modification on the Dynamic Water Vapour Sorption Behaviour of Scots Pine Wood - Yanjun Xie, Callum A.S. Hill, Zefang Xiao, Holger Militz and Carsten Mai
12:15-12:30	Wood Chemical Treatment Influence on the Physico-chemical Interaction of Phenolalcohols with Wood and Its Components - Juris Zoldners and Tatiana Kiseleva
12:30-13:30	Lunch
Session Three: Thermal modification Session Chair: Boke Tjeerdsma and Julia Carmo	
13:30-13:45	Hydrothermal Modification of Soft Deciduous Wood: Bending Strength Properties – Vladimirs Biziks, Bruno Andersons, Ingeborga Andersone, Juris Grinins, Ilze Irbe, Nina Kurnosova and Holger Militz
13:45-14:00	High Quality Thermal Treatment Using Vacuum Based Technology to Come to More Homogeneous Durability – Joris Van Acker, Sander Michon, Lieven De Boever, Imke De Windt, Jan Van den Bulcke, Bob Van Swaay and Marc Stevens
14:00-14:15	Durability of Thermally Modified Timber Assortments against Fungi – Results from a 6 Year Field Test in Comparison with Results from Lab Tests - Katharina Plaschkies, Wolfram Scheiding, Kordula Jacobs and Björn Weiß
14:15-14:30	Evidence for an Antioxidant Mechanism in the Durability of High-pressure Steam Modified Wood – Wim Willems, Andrea Tausch and Holger Militz
14:30-14:45	Prediction of Decay Resistance of Different Softwood and Hardwood Species after Heat Treatment Based on Analysis of Wood Elemental Composition - Mounir Chaouch, Mathieu Pétrissans, Anélie Pétrissans, Philippe Gérardin
14:45-15:00	Prediction of Flooring-relevant Properties Based on Colour Values of Thermally Modified Timber (TMT) – C.R. Welzbacher, L. Meyer, C. Brischke
15:00-15:30	Coffee

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Session Four: Poster Session 1	
Session Chair: Joris Van Acker and Dennis Jones	
15:30	Influence of a Prior Chemical Treatment on Properties of Thermally Modified Wood - Nadine Herold, Jana Peters, Mario Zauer, Alexander Pfriem, Steffen Fischer and Andre Wagenführ
15:35	Colour Differences in Thermally Modified Wood in Dependence of the Distance from the External Surface and the Modification Parameters - Alexander Pfriem, Beate Buchelt, Mario Zauer and André Wagenführ
15:40	Revaluation of European Hardwood Species by Combined Modification, Compression and Shaping Processes - Alexander Pfriem, Beate Buchelt, Tobias Dietrich and Mario Zauer
15:45	Mechanical and Interfacial Adhesion Properties of Acetylated Wood Fibre Reinforced Polypropylene Composites - Behbood Mohebbi, Peyman Fallah-Moghadam and Saeed Kazemi Najafi
15:50	Decay Resistance of Sapwood and Heartwood of Thermally Modified Scots pine and Norway Spruce – Sini Metsä-Kortelainen and Hannu Viitanen
15:55	Densified Wood in 2- and 3-Dimensional Moulding Process - Jörg Wehsener and Peer Haller
16:00	The Changes in Physical and Mechanical Properties of Alder and Spruce Wood as a Result of Thermal and Thermo-oil Modification - Andrzej Fojutowski, Andrzej Noskowiak and Aleksandra Kropacz
16:05	Surface Properties of the Hydrothermally Modified Soft Deciduous Wood - Errj Sansonetti, Bruno Andersons, Vladimirs Biziks, Juris Grinins and Jelena Chirkova
16:10	Prediction of Mechanical Properties of Thermally Modified Beech Wood by Use of Near Infrared (NIR) Spectroscopy - Nebojša Todorović, Manfred Schwanninger and Zdravko Popović
16:15	Chemical Modification of TMP for High Performance Fibreboards - Lars Kloeser, Christopher Wagner, Holger Militz and Carsten Mai
16:20	Manufacture of Carbonized Board using Medium Density Fiberboard and its Electromagnetic Wave Shielding Effects - Sang Bum Park and Jin Heon Kwon
16:25	Dimensional Changes due to Water Sorption in High Wood-Content WPCs Prepared with Modified Wood – Kristoffer Segerholm and Magnus Wälinder
16:30	Soft Rot Decay of Polypropylene/Acetylated Fibre Composites - Behbood Mohebbi and Abolfazl Shakibi
16:35	Absorption and Diffusion of Water in Acetylated Fibre/Polypropylene Composites - Peyman Fallah-Moghadam, Behbood Mohebbi and Saeed Kazemi Najafi

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16:40	Hygrothermal Pre-treatment of Strands: Effects on Technological Properties of OSB Made from a Mixture of Eucalypt and Pine Species - Cláudio H. S. Del Menezzi, Alex G. Bravim, Esmeralda Y. A. Okino, Divino E. Texeira, Joana Mendes Ferraz and Frederico de Souza
16:45	Modified Grey Alder Wood – an Excellent Raw Material for Production of High Density and Strength Activated Carbon - Janis Rizhikovs and Janis Zandersons
16:50	Close
19:00-23:00	CONFERENCE DINNER –Small Guild Hall, Amatu str. 5 (www.gilde.lv), Dress code: Business casual

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Tuesday 21 September	
Session Five: Poster Session 2	
Session Chair: Joris Van Acker and Callum Hill	
8:30	Modification of Domestic Timbers by Impregnation Using Supercritical Carbon Dioxide - A Look on the Process - Erich Jelen
8:35	Dimensional Stabilization by Injection of Urea Compound and Glycol Compound under Pressure. Drying Tests of Injected Japanese Cedar Boxed-Heart Timber - Hiroaki Mizuno, Naoto Ando and Hisahiro Nishioka
8:40	Impregnation and in-situ Polymerization of Isobornyl Acrylate in Wood for Stabilization and Densification – Jérémie Damay, Emmanuel Fredon, Philippe Gérardin, Alain Riondel and Jean Luc Zeh
8:45	Effect of Artificially Accelerated Weathering on Wettability and Surface Chemistry of Wax Treated Wood - Boštjan Lesar, Franc Pohleven and Miha Humar
8:50	Weathering Results of Wax Modified Wood after Two Years Outside Exposure - Gunthard Scholz, Andreas Krause and Holger Militz
8:55	A Preliminary Study into the Properties of Laminated Viscoelastic-Thermal-Compressed Wood - Lauri Rautkari, Mark Hughes and Frederick A. Kamke
9:00	Condensation Process of Wood Impregnation - Olena Gnylytska
9:05	Screw and Nail Withdrawal Resistance of Some Heat-treated Woods - Mehmet Hakan Akyildiz, Sedat Baltaci and Saim Ates
9:10	Pilodyn Testing of Thermally and Chemically Modified Wood - Duarte Barroso Lopes, Holger Militz and Carsten Mai
9:15	Thermogravimetical Analysis of Heat Treated Spruce Wood - a Possible Tool for External Quality Control? - Romana Cerc Korošec, Gregor Rep, Franc Pohleven and Peter Bukovec
9:20	Covalently Attached UV-absorbers for Improved UV-protection of Wood - Sara Olsson, Mats Johansson, Mats Westin and Emma Östmark
9:25	Comparison of Wood Moisture Content in Coated Panels of Selected Types of Modified Wood during Natural Weathering - Michael Truskaller, Gerhard Grüll and Susanne Bollmus
9:30	Plasma Modification of Wood Surfaces to Improve the Performance of Clear Coatings - Jonathan G. Haase and Philip D. Evans
9:35-11:00	Coffee and Poster Session

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Session Six: Environmental Issues, Resins, Waxes and everything else Session Chair: Julia Carmo and Antti Nurmi	
11:00-11:15	Carbon Footprint Assessment for Acetylated Wood Applications - Pablo van der Lugt, Emil Lüning, Luke Purse, Chris Adair and Hal Stebbins
11:15-11:30	Recycling of Modified Wood Products - Henrik Heräjärvi, Ilkka Pirhonen and Pekka Saukkola
11:30-11:45	Chemical Analysis and Toxic Hazard of Leachates from Furfurylated Wood - Annica Pilgård, Mats Westin, Andreas Treu, Albert N.T. van Zeeland and Richard J.A. Gosselink
11:45-12:00	Electron Beam Initiated Polymerization of Poly(ethylene glycol) Based Wood Impregnants - Stacy M. Trey, Julia Netrval, Lars Berglund and Mats Johansson
12:00-12:15	Microscopic and Spectroscopic Methods for Investigation of Wood Modified with Chitosan - Robert Franich, Adya Singh, Tripti Singh and Elizabeth Dunningham
12:15-12:30	Characteristics of Wood Impregnated with Persimmon (<i>Diospyros sp.</i>) Extracts - Carlos Vaca-Garcia, Negar Azarmanesh, Julien Riess, Valentine Austry Dubard and Oriol Munné
12:30-13:30	Lunch
Session Seven: Panels and WPCs Session Chair: Antti Nurmi and Dennis Jones	
13:30-13:45	Use of Chemically Modified Wood for the Production of Wood Polymer Composites (WPC) with an Optimized Property Profile - Timo Grüneberg, Andreas Krause, Holger Militz and Carsten Mai
13:45-14:00	Enhancing the Properties of Plywood Produced by Auto-adhesion - Jussi Ruponen, Lauri Rautkari and Mark Hughes
14:00-14:15	Thermal Compression of Hybrid Poplar Wood: Cellulose Analysis - Noridah Osman, Armando G. McDonald and Marie-Pierre Laborie
14:15-15:30	Biological Investigations of the Durability of Wood-Polymer-Composites Manufactured from Biopolymers and Acetylated Wood - Andreas Haider, Verena Krackler, Anton Brandmair, Wibke Unger and Robert Putz
14:30-14:45	Performance Enhancement of Wood Surfaces Used in Outdoor Applications: The Effect of Sol-gel Treatment on the Weathering Performance of Solid Wood-polymer Composites - Rebecca E. Ibach, Mandla A.Tshabalala and Charles Starr

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14:45-15:15	Coffee
Session 8: Weathering, Surface properties and Marine borers Session Chair: Mats Westin and Callum Hill	
15:15-15:30	Wood Veneer Modification by Atmospheric Pressure Plasma Treatment for Improved Absorption Characteristics - Georg Avramidis, Björn Tebbe, Evelyn Nothnick, Holger Militz, Wolfgang Viöl and Arndt Wolkenhauer
15:30-15:45	The Durability and Weathering Performance of Wood Treated with Glutaraldehyde - Zefang Xiao, Yanjun Xie, Holger Militz and Carsten Mai
16:45-16:00	Liquids and Coatings Wettability and Penetrability of Acetylated Scots Pine Sapwood - Magnus Wålinder, Kristoffer Segerholm, Pia Larsson Brelid and Mats Westin
16:00-16:15	Resistance of Modified Wood to Marine Borers - André Klüppel, Holger Militz, Simon Cragg and Carsten Mai
16:15	Close of Conference / ECWM6 announcement

