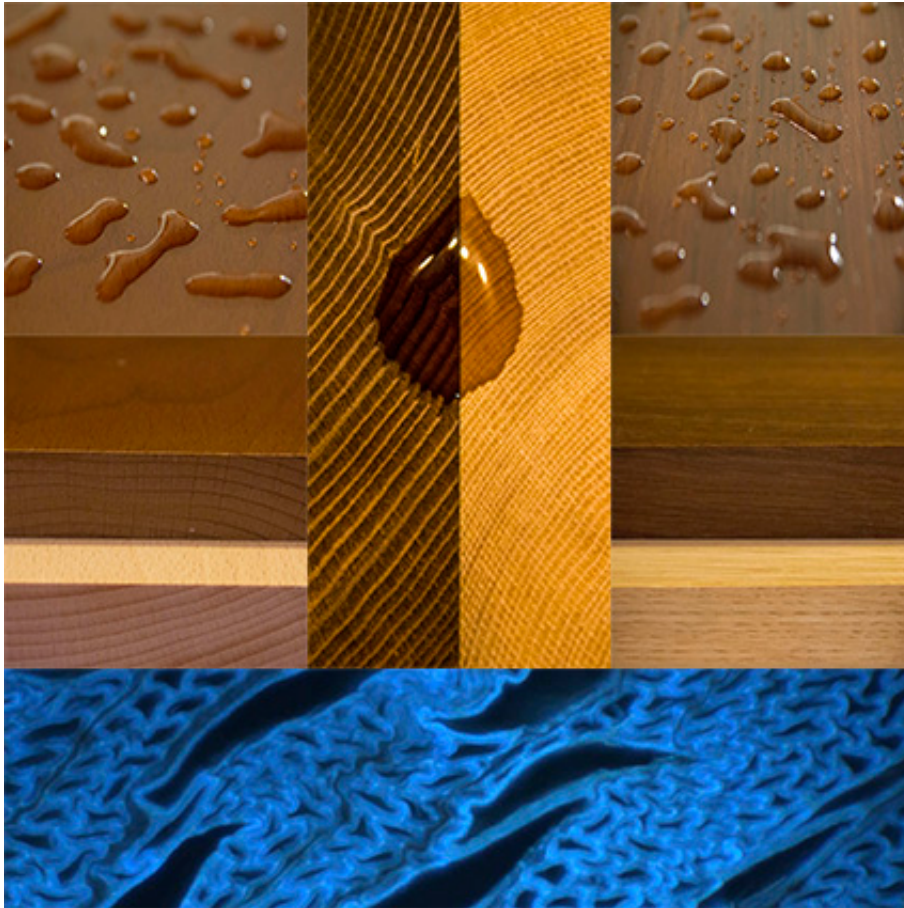


Joint COST FP0904 & FP1006 International Workshop



CHARACTERIZATION OF MODIFIED WOOD IN RELATION TO WOOD BONDING AND COATING PERFORMANCE

16th to 18th October 2013
Terme Zreče, Hotel Rogla and Hotel Planja
Zreče, Rogla
SLOVENIA



SCHEDULE

15th October 2013

Conference venue place: Terme Zreče, Zreče

- 12:00→ Registration
20:00→ Dinner (unformal)

16th October 2013

Conference venue place: Terme Zreče, Zreče

- 09:00 – 09:30 Registration
- 09:30 – 09:45 Welcome address
For local organizer: Sergej Medved
For FP1006: Stefanie Wieland
For FP0904: Dennis Jones
- 09:45 – 10:30 Keynote speaker
Kamke F.A.: THM – a Technology Platform or Novelty Product?
- 10:30 – 11:15 Session 1 – *Chair: Andreja Kutnar*
Clauder L., Rådemar M., Rosell L., Vestergren M. & Pfriem A.: Emissions of thermally modified timber products
Rozanska A. & Sandak A.: Application of FT-NIR for recognition of substances used for conservation of wooden parquets of 19th century manor houses located in South-Eastern Poland
Krystofiak, T., Lis B., Muszyńska M. & Sobota K.: Gluability of thermally modified ash wood with EPI adhesives
- 11:15 – 11:45 Coffee break
- 11:45 – 13:00 Session 2 – *Chair: Dennis Jones*
Militz H. & Bastani A.: Bondability of phenol formaldehyde modified beech wood glued with phenol resorcinol formaldehyde and polyvinyl acetate adhesives
Müller M., Hauptmann M. & Hansmann C.: Bonding properties of wood modified with various siloxanes and silanes
Šernek M., Ugovšek A., Kutnar A. & Kamke F.A.: Viscoelastic thermal compressed wood as a component in green building composites
Kariž M., Kitek Kuzman M. & Šernek M.: Effect of heat treatment of spruce on adhesive bond performance after soaking in water
- 13:00 – 14:30 Lunch break





14:30 – 15:45 Session 3 – *Chair: Mark Hughes*

Bak M., Németh R., Csordós D. & Tolvaj L.: Effect of treatment medium on the moisture uptake rate and colour change during natural weathering of heat treated wood

Hill, C.: The Effect of Surface Weathering on the Water Sorption Properties of Wood

Petrič M., Hughes M., Kričej B., Kutnar A., Laine K., Medved S., Pavlič M. & Rautkari L.: Coated surface densified wood: water vapour absorption and desorption and related dimensional changes

Sivrikaya H. & Can A.: Water repellent efficiency of wood treated with copier-azole combined with silicon and paraffin emulsions

Willems W.: Wood moisture analysis under THM-conditions by employing scaling properties of room temperature moisture isotherms

15:45 – 16:15 Coffee break

16:15 – 17:30 Session 4 – *Chair: Holger Militz*

Popescu C.M. & Popescu M.C.: A structural study of the biodegraded [poly(hydroxy urethane acrylate)] coated lime wood

Lesar B., Pavlič M., Petrič M., Sever Škapin A. & Humar M.: Wax impregnation slows down photodegradation processes of wood

Podgorski L., Grüll G., Truskaller M., Lanvin J.D., Georges V. & Bollmus, S.: Weathering performance of coatings on acetylated, furfurylated and heat treated wood at two exposure sites in Europe

Altgen M., Ala-Viikari J., Hukka M., Tetri T. & Militz H.: Surface performance of thermally modified wood for exterior applications

Strautmann J., Noël M. & Volkmer T.: Surface qualification of weathered wood

17:30 Bus transfer to Rogla

18:30 – 19:45 SC FP1006

20:00 Dinner

17th October 2013

Conference venue place: Hotel Planja, Rogla

09:00 – 09:45 Keynote speaker

Rennekar S., Church, W.T., Dolan J., Lin Z. & Frazier C.E.: Characterization of laser modified wood surfaces for resin-free adhesion

09:45 – 10:45 Training school and poster session 1 – *Chair: Sergej Medved*

Hughes M.: 3rd Training School of FP0904 at Aalto University “Chemical and property changes in wood during THM-treatment”

Cademartori P.H.G., Bihlava dos Santos P.S, Gatto D.A. & Labidi J.: Changes in technological properties of thermally treated gypmie messate wood

Herrera R., Erdociaa X., Gattob D.A. & Labidia J.: Changes in chemical composition of wood during the hydrothermal treatment process





Sansonetti E., Cirule D., Grinins J., Andersone I. & Andersons B.: Colour changes of hydrothermally modified coated wood after artificial and outdoor exposure

Živković, V., Arnold, M., Richter, K. & Turkulin, H.: Characterization of wood surface degradation using activation spectra approach

10:45 – 11:15 Coffee break

11:15 – 12:15 Training school and poster session 2 – *Chair: Stefanie Wieland*

Candelier K., Dumarcy S., Petrissans A., Gerardin P. & Petrissans M.: Advantage of vacuum versus nitrogen to achieve inert atmosphere during wood thermo-modification

Burnard M.D., Leavengood S., Muszynski L. & Ganio L.: Rapid assessment of check development in veneer overlays

Pierre F., Almeida P.Lv.G. & Perre P.: Grindability of heat treated biomass: effect of the treatment intensity on the development of particles suitable for second generation BtL chain

Nguyen S.L., Pitti R.M. & Destrebecq J.F.: Stresses in bonded plans in reconstituted solid wood under moisture variation: a numerical approach

Lu P, Pierre F., Almeida G. & Perre P.: Heat flux study of mild pyrolyzed wood and components through microcalorimetry

12:15 – 13:45 Lunch break

13:45 – 15:15 Session 5 – *Chair: Lone Ross Gobakken*

Popović J., Djiporović-Momčilović M., Gavrilović-Grmuša I., Popović M. & Medved S.: The influence of the sodium carbonate treatment of narrow-leaved ash on the lap shear strength

Salman S., Petrissans A., Thevenon M.F., Dumarcy S., Pollier B. & Gerardin P.: Combined treatment using boron impregnation and thermo-modification to improve properties of heat treated wood - Effect of additives on boron leachability

Sandak J., Sandak A., Riggio M. & Santoni I.: Superb wood surface finishing – SWORFISH project approach

Sinic J. & Müller U.: Method for the quantitative analysis of an optimized wettability of Plasma treated thermal modified timber using contact angle measurements

Popescu M.C. & Popescu C.M.: Spectral study of hydro-thermal treated lime wood

15:15 – 15:45 Coffee break

15:45 – 17:00 Session 6 – *Chair: Graham Ormondroyd*

Krajnc H. & Kokol V.: The comparison of fungal and bacterial laccase ability to oxidize different lignin model compounds and isolated lignins from lignocellulosic fibres

Semple K., Kamke F.A., Kutnar A. & Smith G.: Viscoelastic Thermal Compression of Moso Bamboo Tissue





Straže A., Gorišek Ž., Pervan S., Sandak A. & Sandak J.: Sorption properties of some thermal treated hardwoods analysed by thermodynamics, surface fractality and IR spectroscopy

Karami E., Matsuo M., Bremaud I., Bardet S., Froidevaux J. & Gril J.: Modification of wood acoustic, hygroscopic and colorimetric properties due to thermally accelerated ageing

17:30 – 1:45 SC FP1006 or individual meeting(s)

20:00 Dinner (Cottage Jurgovo)

18th October 2013

Conference venue place: Hotel Planja, Rogla

09:00 – 10:00 Working group meeting

10:00 – 11:00 MC meeting

11:00 – 11:30 Coffee break

11:30 – 12:30 Conference conclusions

12:30 – 14:00 Lunch

14:00 Departure to Ljubljana or airport

