



COST ACTION FP 1303

Final conference

BUILDING WITH BIO-BASED MATERIALS: BEST PRACTICE AND PERFORMANCE SPECIFICATION

WEDNESDAY, 6TH September 2017

08:15	Registration	
08:45	Welcome and introduction	
09:00	SESSION 1: MOISTURE AND MATERIALS	
09:00-09:20	Callum Hill	The interactions between wood, wood components and water at a micro level
09:20-09:40	Christian Brischke	Moisture requirements of wood decay fungi – Review on methods, thresholds and experimental limitations
09:40-09:55	Miha Humar	Moisture monitoring in buildings in different microclimate environment
09:55-10:10	Julia Buchner	Fungal and bacterial colonies growing on wood surfaces exposed to an Atlantic climate
10:10-10:25	Jorge Galván	Behavior of the wood outside the contact with the ground in Spain. Project BIA 2013-42434R
10:25-11:00	COFFEE	
11:00	SESSION 2: BEST PRACTICE SPECIFICATION	
11:00-11:20	Eva Frühwald Hansson	Durability-based design of timber structures – Guidelines for architects and planners
11:20-11:40	Jöran Jermer	The NTR-NWPC scheme for approval of wood preservatives and quality control and certification of preservative-treated wood
11:40-11:55	David Lorenzo	Performance of Eucalyptus globulus single family house in Spain after 15 years exposure. Example of building with bio-based materials
11:55-12:10	Aleš Ugovšek	Performance of wooden windows and façade elements in different natural environments
12:10-12:25	Francesca Paoloni	Maintenance systems for wooden façades
12:25-12:40	Stig Bardage	Towards high performance European wood materials for outdoors use
12:45	LUNCH	
13:45	SESSION 3: INDOOR ENVIRONMENT AND OUTDOOR PERFORMANCE	
13:45-14:00	Anne Christine Steenkjær Hastrup	Bio-based building materials: The need for evaluation of the effect on the indoor environment
14:00-14:15	Younes Aoues	Optimal and reliable design of timber trusses considering decay degradation in aggressive environment
14:15-14:30	Rostand Moutou Pitti	Creep and moisture interaction on tropical timber structures under outdoor conditions: spatial variability of mechanical parameters
14:30	SESSION 4: POSTERS	
14:30-14:33	Dace Cirule	Surface finishing for improvement of thermally modified wood resistance to discoloration
14:33-14:36	Kathrin Kusstatscher	Development of an enzyme-linked aptamer-sorbent assay (ELASA) for the detection of a triazole fungicide in wood
14:36-14:39	Rostand Moutou Pitti	Investigation Of Deflection Of Douglas Fir And White Fir Beams Subjected To Climatic Changes
14:39-14:42	Roman Reh	Monitoring of Pressing Process in Advanced Formwork Composites - II
14:42-14:45	Eduardo Robles	Poly lactide-polyhydroxybutirate blends as bonding agent in multi-layered composites
14:45-14:48	Emilia-Adela Salca	Surface roughness and power consumption – two criteria for wood processing optimization in furniture industry
14:48-14:51	Anna Sandak	Bio-based building skin – best practice examples
14:51-15:54	Tonis Teppand	Using self-locking carpentry joints in plywood to model dragon skin shell and its strength properties
14:54-14:57	Maria-Cristina Popescu	Water sorption ability of acetylated wood assessed by mid infrared spectroscopy
14:57-15:00	Wibke Unger	Initial research on the natural durability of RED MERANTI for window frames as a function of gross density
15:00-15:03	Magdalena Broda	Visco-elastic properties of archaeological oak wood treated with methyltrimethoxysilane
15:03-15:06	Andreja Pirc Barčič	Boosting knowledge and information about the importance of the LCA analysis in environmental impact assessment of wooden products

15:06-15:09	Ladislav Reinprecht	Resistance of bio-based, synthetic and inorganic thermal insulations against attack by house mouse
15:09-15:12	Silvia Helena Fuentes da Silva	Influence of reaction conditions on the properties of phenolic resins
15:12-15:15	Vjekoslav Živković	Influence of surface pretreatment to bonding quality of thermally modified wood
15:15-15:18	Lothar Clauder	Analysis of wood-destroying fungi in TMT samples
15:18-15:21	Ján Iždinský	Three layer particleboards properties effected by addition of sub-dimensional particles from OSB production
15:21-15:24	Mesut Yalcin	Determination of Hylotrupes bajulus (Coleoptera:Cerambycidae) in log and factory depots in Western Black Sea Region of Turkey
15:24	COFFEE AND POSTERS	
16:15	SESSION 5: ASSESSMENT TOOLS	
16:15-16:30	Paulina Faria	Performance of bio-based insulation panels
16:30-16:45	Davor Kržišnik	Modelling of colour change as a function of climatic exposure
17:00	CLOSE DAY 1 <i>Conference dinner at 19:00</i>	
THURSDAY, 7TH September 2017		
09:00	SESSION 6: EDUCATION AND KNOWLEDGE TRANSFER	
09:00-09:20	Lina Nunes	Knowledge exchange and transfer from academia to industry in the field of wood protection research – Activities of the IRG-WP Communications Committee
09:20-09:40	Carmen-Mihaela Popescu	An overview of the knowledge transfer through STSMs
09:40-09:55	Anna Sandak	Strengthening the confidence in bio-based building materials – BIO4ever project approach
09:55-10:10	Katja Vahtikari	Multidisciplinary teaching helps students to understand the context of building with bio-based materials
10:10-10:25	Sónia Duarte	Knowledge transfer using termites as an educational model
10:25	COFFEE	
11:00	SESSION 6 (CONTINUED)	
11:00-11:15	Karl-Christian Mahnert	Popular wood products - discrepancies between selling points and user expectations from a Norwegian perspective
11:15-11:30	Athanasios Dimitriou	Knowledge Transfer Partnership. Adding value to UK grown timber in construction
11:30	SESSION 7: MATERIAL AND METHOD INNOVATION	
11:30-11:45	Larisa Brojan	Straw bale building performance and design diversity
11:45-12:00	Noam Attias	Developing novel applications of mycelium based bio-composite materials for architecture and design
12:15-12:30	Cihat Tascioglu	Durability of Zinc Borate Incorporated Wood-plastic Composites: Laboratory and 7-year field test results
12:30-12:45	Lukas Emmerich	Wood modification with DMDHEU – State of the art, recent research activities and future perspectives
12:45-13:00	Miklós Bak	Improvement of dimensional stability of wood by silica-nanoparticles
13:00-13:15	Simon Curling	Effects of Methyl Methacrylate impregnation on durability of timber
13:15	LUNCH	
14:15-14:45	WG CONCLUSIONS, CHAIR AND VICE-CHAIR CONCLUSION	
14:45-16:15	FINAL MC MEETING	
16:15-16:45	CLOSING OF ACTION	