Experimental Research with Timber Czech Technical University in Prague 21-23 May 2014





Conference host: Petr Kuklík, Czech Technical University in Prague

Conference venue: Czech Technical University in Prague – CTU in Prague

Faculty of Civil Engineering (Fakulta stavební)

Thákurova 7

Prague 6

Building C, 2nd floor, lecture room C215

Wednesday, 21 st	09:00-10:00	Registration
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Wednesday, 21 st	10:00-11:00	Opening Session
Richard Harris. Chair COST Action FP1004		Conference opening
Petr Kuklík. Conference Host		Research in CTU in Prague

Coffee



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Wednesday, 21 st 11:30-13:00		11:30-13:00	Connections
Paper	Name		Title
01	Katarina Bratulic, Georg Flatscher, Reinhard Brandner		Monotonic and cyclic behavior of joints with self-tapping screws in CLT structures
08	Petr Sejkot, Petr Kuklík		Design of three-dimensional nailing plates
34	Daniel Brandon , Pete Walker, Richard Harris, Martin Ansell, Julie Bregulla		Visco-elastic creep of dowel type timber connections
15	Michael Drass, Kay-Uwe Schober, Michael Kuechler		Glued-in rods in timber joints: Characterization of failure modes
40	James Walker, Robert Xiao		Strength of glued-in rods under combined axial and lateral loading
28	Artur O. Feio, José S. Machado		Traditional timber carpentry joints: monotonic tests and modeling

Lunch

Wednesday, 21 st 14:00-15:30		14:00-15:30	Structural Performance 1
Paper	Name		Title
03	Laurent Léoskool, Thierry Descamps		Development of a structural insulated panel (SIP) with wood-based material
20	Chiara Bedon, Massimo Fragiacomo, Claudio Amadio, Annalisa Battisti		Buckling behavior of Blockhaus timber walls under in- plane vertical loads
13	Michael Steilner		Pre-stressing of wood with full thread screws
19	Nicola Ruggieri		In-plane Cyclic Tests on Historic Timber Frame Walls
22	Antanas Baltrušaitis, Vytenis Kalėda		Knot-related Stiffness Inhomogeneity within Wood Board

Coffee

Wednesday, 21 st 16:00-17:30		16:00-17:30	Test Methods 1
Paper	Name		Title
02	Julia K. Denzler, Peter Linsenmann		Utilization of Microwave Measurement in Timber Strength Grading
06	Robert Jára, Jan Pošta, Petr Ptáček, Jakub Dolejš, Petr Kuklík		The comparison of methods for assessment of modulus elasticity and strength of spruce samples
12	Marcus Flaig, Nico Meyer		A new test configuration to determine the slip modulus of connections between crosswise bonded boards
36	Ahmed Mohamed, Rémi Caudoux, Hexin Zhang1		Performance Study of Displacement Transducers for Timber Material under Compression Tests Using Photogrammetric Approach
09	Monika Terebesyová , Pavla Ryparová, Petr Ptáček		Utilization of nanotechnologies for prevention of fungal growth



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Thurs	Thursday, 22 nd 09:15-10:45		Composites and Reinforcement
Paper	Paper Name		Title
17	Caoimhe O'Neill, Danny McPolin , Su Taylor , Annette Harte		Behavior of Basalt Fiber Reinforced Polymer rods glued- in parallel to the grain in Low-Grade timber elements by Pullout-Bending tests
18	Conan O'Ceallaigh, Annette Harte, Karol Sikora, Daniel McPolin		Enhancing Low Grade Sitka Spruce Glulam Beams with Bonded-in BFRP Rods
24	Izabela Burawska, Marcin Zbiec, Piotr Beer		Enhancement of timber beams with D-shape local reinforcement
26	Carlos Martins, Alfredo M.P.G. Dias, R. Costa		Reinforcement of timber floors using lightweight concrete – Mechanical behavior of the connections
27	Pedro Santos , Alfredo M.P.G. Dias, L. Godinho		Experimental assessment of dynamic performance of timber-concrete composite floors
42	Timucin Bardak, Deniz Aydemir, Nurgul Tankut, Ali Naci Tankut, Eser Sözen, Serkan Peltek,		The effect of mixing method on bonding performance of PVA nanocomposites

Coffee

Thurs	Thursday, 22 nd 11:15-13:00		Structural Performance 2
Paper	Name		Title
35	Thomas Reynolds, Wen-Shao Chang, Richard Harris		Ambient Vibration Testing to Identify Lateral Stiffness and Damping in Modern Multi-Storey Timber Buildings
10	Rostand Moutou Pitti, Eric Fournely, Serge Ekomy Ango		Increase of semi-rigidity for timber truss beam structure
23	Anna W. Ostrycharczyk, Kjell A. Malo		Experimental evaluation of timber network arch bridge
39	Jesus M. Menendez, Kenneth Leitch, Robert Hairstans		Structural Behavior of Timber Frame Closed Panels for Specification in the United Kingdom
11	Damien Lathuilliere , Jean-François Bocquet, Laurent Bleron, Frédéric Dubois		Study of spreading under a compressive stress in glued laminated timber

Lunch

Thursday, 22 nd	14:00-17:0	O Structural Performance 2	
Visit to:	UCEE UNIVERSITY CENTRE FOR ENERGY EFFICIENT BI	AUNIETE DETAIL ÉVOLETAIL : EVROPSKI FOND PRO REGIONALNI ROZVOJ : OP VYZKUM A VYVOJ	
	UCEEB is supported by the European Union, OP RDI project No. CZ.1.05/2.1.00/03.0091		
Thursday, 22 nd	19:30	Dinner (Brewery restaurant, optional, on your own expenses)	



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Friday	iday, 23 rd 9:30-11:00		Test Methods 2
Paper	Name		Title
07	Jan Pošta, Jakub Dolejš, Lubomír Vítek		Non-Destructive Examination by Radiometry
16	Natalia Yaitskova		Time-of-flight of transversal ultrasonic scan of wood: modeling versus measurement
38	Aamir Khokhar, Hexin Zhang		Determination of shear properties of timber joists by torsion test method
41	John C. Hermanson, John G. Michopoulos, Athanasios Iliopoulos		Industrialization of Physical System Identification

Coffee

Friday	Friday, 23 rd 11:30-13:00		Structural Performance 3
Paper	Name		Title
21	Ivan Giongo, Roberto Tomasi, Dimitro Dizhur, Jason Ingham		In situ testing on of timber diaphragms in unreinforced masonry building
25	Anna Rozanska , Ewa Sudol, Anna Policinska-Serwa		Characteristics of Structural Floor Decking Performance in the Context of Reinforced Timber Beam Floors
29	Tiago Ilharco , João Miranda Guedes, Gabriele Romagnoli, Florian Kobryn		Experimental assessment of the bending performance of old timber beams before and after retrofitting
32	Noëlie Magnière, Steffen Franke, Bettina Franke		Numerical Investigation of the Residual Load-Carrying Capacity of Cracked Timber Elements
37	David Gil-Moreno , Dan Ridley-Ellis, J. Paul McLean		Strength class of "minor" conifer species, as estimated from log acoustic measurements, small-clear data and knowledge of wood property variation

Lunch and Conference Close

