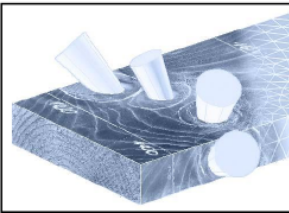


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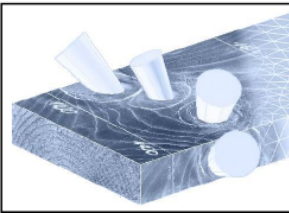
Wednesday May 27

09:00	Welcome	
09:10 - 09:50	Erik SERRANO (Lund University, Sweden), <i>Finite element analyses of fracture in wood and wood products</i>	
09:50 - 11:00	Session I	Fracture Simulation
	I.1	Dorn, M. <i>A combined material model for plasticity and fracture for wood</i>
	I.2	Gebhardt, C. <i>Fracture Simulation of Timber Structures using XFEM</i>
	I.3	Moutou Pitti, R. <i>Fracture analysis in wood coupling viscoelastic behaviour and temperature effects by non-dependant integrals</i>
11:00 - 11:30	Break	
11:30 - 13:00	Session II	Experimental Investigation of Timber & Wood Products: Mechanical Properties
	II.1	Bogensperger, T. <i>Concentrated load introduction in CLT elements perpendicular to plane</i>
	II.2	Haller, P. <i>Experimental investigations on the behaviour of moulded wooden tubes made of beech under axial compression</i>
	II.3	Cavalli, A. <i>Dynamic shear modulus of old timber members</i>
	II.4	Petersson, H. <i>Influence of structural stability and material property variations on bending strength of solid timber</i>
13:00 - 14:30	Lunch	
14:30 - 15:10	Session III	Damage Detection
	III.1	Baensch, F. <i>Real-time studies on the damage evolution in wood combining acoustic emission & X-ray tomographic microscopy</i>
	III.2	Miksic, A. <i>Acoustic emission and fracture localisation in wood compression</i>
15:10 - 17:45	Session IV	Timber Simulation
	IV.1	Cabrero, J.M. <i>Wood or timber? Considerations on the numerical modelling of wood and its fracture</i>
15:30 - 16:00	Break	
	IV.2	Briggert, A. <i>Modelling 3D fibre orientation in timber on the basis of dot laser scanning and the tracheid effect</i>
	IV.3	Oppel, M. <i>Numerical Constitutive Model for Timber, Depending on Gross Density</i>
	IV.4	Jenkel, C. <i>Modelling of Material Inhomogeneities in Timber</i>
	IV.5	Füssl, J. <i>A comprehensive mechanical modeling approach for the optimization of wood-based products</i>
	IV.6	Guindos, P. <i>Application of the lattice approach to the macro-scale and comparison with continuum models</i>



Thursday May 28

09:00 - 09:40	Ingo BURGERT (ETH Zurich, Switzerland), <i>Functional wood materials</i>
09:40 - 10:45	Session V Experimental Investigation of Timber & Wood Products: Influence of Climate
	V.1 Grolleau, V. <i>High strain rate cryogenic compression of birch plywood</i>
	V.2 Kouko, J. <i>Effect of heating on wet paper tensile stiffness and tension relaxation</i>
	V.3 Fioravanti, M. <i>Residual viscous and MS deformation of an antique violin as a parameter to understand the mechanical effect of a concert</i>
10:45 - 11:15	Break
11:15 - 13:00	Session VI Hygro-Mechanics: Modelling and Simulation
	VI.1 Schulgasser, K. <i>Modelling the transverse shrinkage of wood – micro to macro</i>
	VI.2 Derome, D. <i>Adsorption and swelling of wood cell wall investigated with molecular dynamics simulations</i>
	VI.3 Montero, C. <i>From wood hygromechanical interactions to timber structure longevity</i>
	VI.4 Ormarsson, S. <i>Moisture-induced stresses in curved statically indeterminate timber structures</i>
	VI.5 Fortino, S. <i>A multi-Fickian model to simulate the hygro-thermal behaviour of stress-laminated timber decks</i>
13:00 - 14:30	Lunch
14:30 - 15:30	Session VII Material Properties
	VII.1 Burgers, A. <i>Influence of growth parameters on Mountain pine wood properties</i>
	VII.2 Bossu, J. <i>Effect of interlocked grain on wood mechanical behaviour in Bagassa guianensis in French Guiana</i>
	VII.3 Farajzadeh Moshtaghin, A. <i>Spatial variability in longitudinal elastic modulus of clear timber</i>
15:30 - 16:00	Break
16:00 - 17:30	Session VIII Applied Measurement Techniques
	VIII.1 Bertolini-Cestari, C. <i>The role of terrestrial lidar for the mechanical evaluation of historic timber trusses</i>
	VIII.2 Sebera, V. <i>Using DIC in measurement of strains induced in trees during bending</i>
	VIII.3 Gril, J. <i>The Mona Lisa Project: an update on the progress of measurement and monitoring activities</i>
	VIII.4 Major, B. <i>Glue laminated timber structure evaluation by acoustic tomography</i>
19:00	Dinner



Friday May 29

9:00 - 10:30	Session IX	Wooden Products Simulation
	IX.1 Hall, C.	<i>New Elements for Modelling the Nonlinear Load-bearing Behaviour of Wood Shear Walls and Diaphragms</i>
	IX.2 Makhlouf, H.	<i>Virtual Test Procedure for Wood Furniture</i>
	IX.3 Franzoni, L.	<i>Advanced modelling of Cross Laminated Timber (CLT) panels in bending</i>
	IX.4 Ekevad, M.	<i>Finite Element Models for Stress-Laminated Solid Wood Decks</i>
10:30 - 11:00	Break	
11:00 - 11:40	Hans Joachim BLASS (KIT Karlsruhe, Germany), <i>Numerical and experimental analysis of glulam and crosslam members</i>	
11:40 - 12:20	Session X	Experimental Investigation of Timber & Wood Products: Joints
	X.1 Bader, T.K.	<i>Integrative research for an enhanced design of dowel connections</i>
	X.2 Mazzanti, P.	<i>An experimental study on wooden "buttons" for anchoring elastic crossbars on the back face of panel paintings, to characterise their mechanical behaviour</i>
12:20 - 13:00	Session XI	Applied Mechanics
	XI.1 Marcon, B.	<i>Methodology for the design of crossbeams and springs system for cupping control of wooden panel paintings</i>
	XI.2 Viala, R.	<i>Model-based effects screening of a violin including orthotropic material behaviors</i>
13:00 - 13:15	Closing	
13:15 - 14:30	Lunch (light)	