Dr. Robert Jockwer (Switzerland) ETH Zurich, Institute of Structural Engineering Zurich Switzerland jockwer(at)ibk.baug.ethz.ch COST FP1402, MC Member, WG3 Member



Personal	Organisation		
Years of experience in relevant field: 6 Expertise: connections, reinforcement,	Institute of Structural Engineering, Chair for Timber Engineering (www.ibk.ethz.ch)		
modelling of moisture induced stresses, fracture mechanics Degree: Dr. sc. (01.06.2014)	Focus: theoretical and practical research / innovation and education/training.		
	Facilities: Universal testing machines -2MN, Strong floor, Optical Measurements, Climate chambers		
	No. of staff	PhD students	MSc/year
	-	8	20
Research projects			
http://www.ibk.ethz.ch/fr/research/index			
WP 2: Solid Timber Construction			
"Influence of local strain differences on the bearing capacity of glulam", Dr. Gerhard Fink			
"Structural behaviour of glued-laminated timber members subjected to axial compression or combined compression and bending (2nd order analysis)", Dr. Matthias Theiler			
"Structural behaviour of glued-laminated timber beams with notches or holes", Dr. Robert Jockwer			
"Glued laminated timber from Beech wood", Thomas Erhardt			
WP 3: Connections			
"Enhancement of compression perpendicular to the grain strength and stiffness of glulam members with the use", Dr. Robert Jockwer			
"Assessment of the residual load-carrying capacity of large span members in wood", Dr. Robert Jockwer			
WP 4: Hybrid Timber Structures			
"Post-tensioned timber frame structures", Flavio Wanniger			
"Reliable timber and innovative wood products for structures - Beam-type structural elements made of LVL beech wood", Peter Kobel			
" - Plate-type structural elements made of LVL beech wood", Lorenzo Boccadoro			
"ETH House of Natural Resources", Claude Leyder			
Publications			
WP 1: Basis of Design			
Kohler, Jochen; Steiger, René; Fink, Gerhard; Jockwer, Robert, "Assessment of selected Eurocode based design equations in regard to structural reliability", 45th CIB-W18 Meeting 2012, 45, CIB-W18/45-102-1.			
Steiger, René; Jockwer, Robert, "Tragwerksanalyse und Bemessung", Dokumentation SIA, Holzbau: Teilrevision der Norm SIA 265, Ausgabe 2012, Zürich, Switzerland.			
WP 3: Connections			
Jockwer, Robert; Steiger, René; Frangi, Andrea, "Fully Threaded Self-tapping Screws Subjected to Combined Axial and Lateral Loading with Different Load to Grain Angles", Materials and Joints in Timber Structures, 2014, 9, 265-272.			
Jockwer, Robert, "Structural behaviour of self-tapping screws - Theory", COST Timber Bridge Conference - CTBC 2014, Biel, Switzerland.			
Jockwer, Robert, "Self-tapping screws as reinforcement in areas of recessed beams under transverse shear loads", 20. Internationales Holzbau-Forum (IHF 2014), 2014, Garmisch-Partenkirchen, Germany.			
Jockwer, Robert; Steiger, René; Frangi, "Design model for inclined screws under varying load to grain angles", International Network on Timber Engineering Research: 1st INTER Meeting, 2014, Bath, United Kingdom.			



Basis of Structural Timber Design from Research to Standards