Mr. Michael Schweigler (Austria) Vienna University of Technology michael.schweigler@tuwien.ac.at

COST FP1402, STSM Candidate



Personal	Organisation		
Years of experience in relevant field: 3 Expertise: Modelling of dowel-type connections	Institute for Mechanics of Materials and Structures - Facultiy of Civil Engineering (http://www.imws.tuwien.ac.at)		
Experimentally characterization of dowel- type connections	 Focus: theoretical and practical research / innovation, design of structures and education/training. Facilities: high performance computation facilities and mechanical testing facilities (including uniaxial and triaxial testing machines for up to 250 kN; full- field deformation measurement system) 		
Modelling of timber structures			
Degree: Dipiing. (06.2013)	No. of staff	PhD students	MSc/year
	4	2	15

Research projects

2011-2015

"Characterization of Wood Products and Connections - From Mechanical Modeling to Engineering Applications (MechWood 2)"

FFG-Project in cooperation with the Association of the Austrian Wood Industries; duration: 3 years; people involved: 9

2007-2010

"Mechanical characterization of wood for knowledge-based timber industry"

FFG-Project in cooperation with the Association of the Austrian Wood Industries

Publications

for WG 3 "Connections":

[1] T.K. Bader, M. Schweigler, E. Serrano, B. Enquist, M. Dorn, G. Hochreiner. Integrative experimental characterization and engineering modeling of single dowel connections in LVL. Constr Build Mater 107, 235-246, 2016.

[2] Bader, T.K., Schweigler, M., Hochreiner, G., Enquist, B., Dorn, M., Serrano, E.: Experimental characterization of the global and local behavior of multi-dowel LVL-connections under complex loading. Materials and Structures, 1-18, 2015.

[3] Bader, T.K., Schweigler, M., Hochreiner, G., Serrano, E., Enquist, B., Dorn, M.: Dowel deformations in multi-dowel LVL-connections under momnet loading. Wood Material Science and Engineering 10(3), 216-231, 2015.

[4] G. Hochreiner, T.K. Bader, K. de Borst, J. Eberhardsteiner. Stiftförmige Verbindungsmittel im EC 5 und baustatische Modellbildung mittels kommerzieller Statiksoftware. Bauingenieur 88, p. 275-289, 2013 (in German).

[5] Schweigler, M. (2013) "A Numerical Model for Slip Curves of Dowel Connections and Its Application to Timber Structures", Master Thesis, IMWS, TU Vienna

