

**Dr. Johan Vessby (Sweden)**

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COST FP1402, MC Member, WG3 Member

*Personal*

Years of experience in relevant field: 10  
 Expertise: numerical modelling, experimental tests, shear walls, connections  
 Degree: PhD (11.05.2011)

*Organisation*

Building Technology (www. lnu.se)  
 Focus: theoretical and practical research / innovation, design of structures and education and training  
 Facilities: Testing lab with three hydraulic test rigs of which one is setup for biaxial experiments, several other hydraulic pistons, DIC evaluation systems

No. of staff	PhD students	MSc/year
6	1	10

*Research projects*

[1] Expert competence for sustainable timber buildings (master courses for practicing engineers), 2012-2018, e.g. J. Vessby, J. Oscarsson, S. Ormarsson, M. Johansson, A. Olsson, lnu.se/ehb (in Swedish)

[2] Part in the research project Mechwood 2, 2012-2014, T. Bader, E. Serrano, M. Dorn, B. Enquist, <http://www.imws.tuwien.ac.at/en/mechwood/mechwood/>

[3] Simulation of effects of moisture in members and connections in timber structures, 2015-, S. Ormarsson

*Publications*

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

[2] S. Ormarsson and Ó. V. Gíslason: Moisture-induced stresses in timber structures, European Journal of wood and wood products, In process for publication, 2015.

[3] Vessby, J., Serrano, E., Olsson, A. (2010). Coupled and uncoupled nonlinear elastic finite element models for monotonically loaded sheathing-to-framing joints in timber based shear walls. Engineering structures. 32. 3433-3442.

[4] Vessby, J., Källsner, B., Olsson, A., Girhammar, U.A. (2014). Evaluation of softening behaviour of timber light-frame walls subjected to in-plane forces using simple FE models. Engineering structures. 81. 464-479.

