Prof. Dr. **Massimo Fragiacomo (Italy)**
University of Sassari
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COST FP1402, MC Member, WG3 Member

Personal	*Organisation*		
Years of experience in relevant field: 15 Expertise: Seismic resistance of timber structures; Timber-concrete composites; Fire resistance of timber structures; FE modelling; Use of low-grade timber. Degree: PhD. (08.02.2001)	Architecture, Design and Urban Planning (http://www.architettura.uniss.it/) Focus: theoretical research / innovation and education / training Facilities: -		
	No. of staff	PhD students	MSc/year
	4	3	1

Research projects

1.“RELUIS-Research line: Timber Structures – WP4: Timber buildings with special systems and/or protective devices (Log-haus buildings)”, 2014-2016, 1 Fixed Term Assistant Professor (Chiara Bedon).

2. "FE modelling of cross-lam multi-storey timber buildings for earthquake resistance”, 2014-2016, 1 Postdoc (Giovanni Rinaldin) and 1 PhD student (Matteo Izzi).

3. "Revision of the Section 8 - Timber Structures - of the Eurocode 8 - Design for earthquake resistance", 2015-2016, 1 Postdoc (Maurizio Follesa).

4. “Sustainable use of Sardinia forests for production of timber panels and bio-energy”, 2014-2016, 1 PhD student (Riccardo Riu).

5. "Determination of a procedure for seismic design of log house timber buildings with ‘Blockbau’ system", 2012-2014, 1 Postdoc (Chiara Bedon).

6. "Numerical modelling of timber elements and timber structures as part of the Cornet project OptimberQuake”, 2011-2013, 1 PhD student (Herve Pohsie) and 1 postdoc (Giovanni Rinaldin).

Publications

1. Bedon, C., Rinaldin, G., and Fragiacomo, M. (2015). “Non-linear modelling of the seismic behaviour of 'Blockhaus' structures.” Engineering Structures, Vol. 91, pp. 112-124.

2. Gavric, I., Fragiacomo, M., and Ceccotti, A. (2015). “Cyclic behaviour of typical screwed connections for cross-laminated (CLT) structures.” European Journal of Wood and Wood Products, 73(2), 179-191.

3. Gavric, I., Fragiacomo, M., and Ceccotti, A. (2015). “Cyclic behavior of cross-laminated timber (CLT) wall systems: Experimental tests and analytical prediction models.” ASCE Journal of Structural Engineering, 14 pp., 04015034.

4. Bedon, C., and Fragiacomo, M. (2015). “Numerical and analytical assessment of the buckling behaviour of Blockhaus log-walls under in-plane compression.” Engineering Structures, Vol. 82, pp. 134-150.

5. Fragiacomo, M., and Lukaszewksa, E. (2015). “Influence of the construction method on the long-term behavior of timber-concrete composite beams.” ASCE Journal of Structural Engineering, 15 pp., 04015013.

6. Gavric, I., Fragiacomo, M., and Ceccotti, A. (2014). “Cyclic behaviour of typical metal connectors for cross-laminated (CLT) structures”. RILEM Materials and Structures, published online.

7. Fragiacomo, M., Balogh, J., To, L., and Gutkowski, R.M. (2014). “Three dimensional modeling of long-term structural behavior of wood-concrete composite beams.” Journal of Structural Engineering, ASCE, Vol. 140 No. 8, 11 pp., A4014006.

8. Rinaldin, G., Amadio, C., and Fragiacomo, M. (2013). “A component approach for the hysteretic behaviour of connections in cross-laminated wooden structures.” Earthquake Engineering and Structural Dynamics, Vol. 42 No. 13, pp. 1885–2042, doi: 10.1002/eqe.2310.

Carina Fonseca Ferreira, Dina D’Ayala, Jose L. Fernandez Cabo, Marina Arce Blanco, Rafael Díez Barra, Pedro Hurtado Valdez (2015): Numerical Modelling and Seismic Assessment of Historic Planked Timber Arches. International Journal of Architectural Heritage. DOI: 10.1080/15583058.2015.1041194