

Andrea Polastri

Ricercatore III Livello

CNR - IVALSA Istituto per la Valorizzazione del Legno e delle Specie Arboree

Sede San Michele all'Adige

ELENCO PUBBLICAZIONI

Publicazioni su rivista scientifica

Pozza L., Scotta R., Trutalli D., Polastri A., Smith I. (2016), Experimentally based q-factor estimation of CLT walls, Proceedings of the Institution of Civil Engineers: Structures and Buildings, doi: 10.1680/jstbu.15.00009 - *In press*

Pozza, L., Scotta, R., Trutalli, D., Polastri, A., Ceccotti, A. (2015). "Concrete-Plated Wooden Shear Walls: Structural Details, Testing, and Seismic Characterization." J. Struct. Eng., doi: 10.1061/(ASCE)ST.1943-541X.0001289 - *In press*.

Pozza L., Scotta R., Trutalli D., Polastri A., (2015), Behaviour factor for innovative massive timber shear walls, Bulletin of Earthquake Engineering, 13(11): 3449-3469, doi:10.1007/s10518-015-9765-7

Vieux-Champagne, F., Sieffert, Y., Grange, S., Polastri, A., Ceccotti, A., Daudeville, L., (2014), Experimental analysis of seismic resistance of timber-framed structures with stones and earth infill, Engineering Structures 69 PP. 102 -115, doi: 10.1016/j.engstruct.2014.02.020

Polastri, A., Tomasi, R., Piazza, M., Smith, I., (2013), Moment resisting dowelled joints in timber structures: Mechanical behaviour under cyclic tests, Ingegneria Sismica 30 (4) PP. 72 - 81

Piazza M., Polastri A., Tomasi R., (2011), Ductility of Joints in Timber Structures, Special Issue in Timber Engineering, Proceedings of the Institution of Civil Engineers: Structures and Buildings, 164 (2) PP. 79-90, doi: 10.1680/stbu.10.00017

Publicazioni per convegno (indicizzate)

Polastri A., Pozza L., Trutalli D., Scotta R., Smith I., (2014). Structural characterization of multistory buildings with CLT cores, 13th World Conference on Timber Engineering 2014, WCTE 2014, Quebec City, Canada

Polastri A., Angeli A., (2014). An innovative connection system for CL T structures: experimental - numerical analysis, 13th World Conference on Timber Engineering 2014, WCTE 2014, Quebec City, Canada

Polastri A., Angeli A., Dal Ri G., (2014). A new construction system for CL T structures, 13th World Conference on Timber Engineering 2014, WCTE 2014, Quebec City, Canada

Polastri A., Christofides S., Tomasi R., (2013), Static and thermohygro-metric analysis of a new typology of timber framed structure in dolomites, Advanced Materials Research, 778 PP. 82 – 88 doi: 10.4028/www.scientific.net/AMR778.82

Corduban C. G., Polastri A., (2013), The traditional wooden house in Bucovina, a model for durability, Advanced Materials Research, 778 PP. 89 – 96 doi: 10.4028/www.scientific.net/AMR778.89

Pozza L., Trutalli D., Scotta R., Polastri A., Ceccotti A., (2013), Analytical formulation based on extensive numerical simulations of behavior factor q for CLT buildings. In: Proceedings of the 46th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 - Timber Structures, CIB-W18, Vancouver, Canada, CIB-W 46-15-5

Pozza L., Trutalli D., Polastri A., Ceccotti A., (2013), Seismic design of CLT Buildings: Definition of the suitable q -factor by numerical and experimental procedures, Structures and Architecture: Concepts, Applications and Challenges - Proceedings of the 2nd International Conference on Structures and Architecture, ICSA 2013 PP. 90 - 97

Polastri A., Tomasi R., Piazza M., Smith I., (2013), Behaviour of moment connection in timber frameworks, Structures and Architecture: Concepts, Applications and Challenges - Proceedings of the 2nd International Conference on Structures and Architecture, ICSA 2013 PP. 106 – 113

Polastri A., Angeli A., Moretton M., Tomasi R., Piazza M., (2010), Experimental analysis on T-shaped metallic profile for timber connection, Structures and Architecture - Proceedings of the 1st International Conference on Structures and Architecture, ICSA 2010 PP. 2062 – 2069

Polastri A., Angeli A., Moretton M., Tomasi R., Piazza M., (2010), Experimental analysis on a T-shaped metallic profile connection between main and secondary beams, 11th World Conference on Timber Engineering 2010, WCTE 2010 4 PP. 2966 - 2971

Altre Pubblicazioni

Polastri A., Pozza L., Loss C., Smith I., (2015), Structural characterization of multi-storey CLT buildings braced with cores and additional shear walls, Proceedings of the International Network on Timber Engineering Research, Šibenik, Croatia, INTER/48-15-5

Sandak J., Ruggeri N., Riggio M., Fellin M., Sandak A., Polastri A., Ceccotti A., (2015), An Italian historic timber framed wall: damage progression through DIC analysis, Proceedings of the International Conference Shatis'15- 3rd International Conference on Structural Health Assessment of Timber Structures - Wroclaw - Poland, September 9-11, 2015

Pozza L., Scotta R., Trutalli D., Polastri A., Ceccotti A., (2014). Effects of the design criteria on the experimental-based evaluation of the behaviour factor of newly developed massive wooden shearwalls, International Network on Timber Engineering Research (INTER), Bath, UK

Polastri A., (2014). An innovative connector system for fast and safe erection with CLT, 20. Internationales Holzbau-Forum 2014, Garmisch Partenkirchen, Germany

Ratajczak J., Benedetti C., Polastri A., Poh'siè G. H., Gasparella A., Baratieri. M., Paradisi I., (2014), TIMber Buildings with Enhanced Energy and Seismic performance for Mediterranean region: the research project TIMBEEST, In: Proceedings of the 30th International PLEA Conference, Ahmedabad

Pozza L., Scotta R., Trutalli D., Pinna M., Polastri A., Bertoni P., (2014) Experimental and numerical analyses of new massive wooden shear-wall systems, Building Performance Analysis and Simulation, Buildings MDPI, 4(3), 355-374; doi:10.3390/buildings4030355

Pozza L., Trutalli D., Scotta R., Polastri A., Ceccotti A., (2013), Proposal of an analytical experimental procedure for determining the q -factor of timber building systems, ANIDIS - Padova, Italia

Pozza L., Scotta R., Polastri A., Ceccotti A., (2012), Seismic behaviour of wood-concrete frame shearwall system and comparison with code provisions. In: Proceedings of the 45th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 - Timber Structures, CIB-W18, Vaxjo, Sweden, CIB-W 45-15-2

Andreolli M., Polastri A., Tomasi R., (2012), Experimental investigation on in-plane behaviour of cross-laminated timber elements. In: Proceedings of the 45th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, Vaxjo, Sweden, CIB-W 45-12-4

Ceccotti A., Polastri A., Terzi E., (2012), Experimental and theoretical assessment of the seismic behaviour of a medium-rise hybrid wood construction system, 15 WCEE, World Conference on Earthquake Engineering, Lisboa, Portugal

Ceccotti A., Daudeville L., Grange S., Polastri A., Sieffert Y., Vieux-Champagne F., (2012), Experimental analysis of seismic resistance of shear wall in traditional Haitian houses, 15 WCEE, World Conference on Earthquake Engineering, Lisboa, Portugal

Corduban C., Bochicchio G., Polastri A., Ceccotti A., (2012), Fire protection as a mean to increase the sustainability of wood structures, Bulletin UASVM Agriculture, 69(2), Romania

Casagrande D., Andreolli M., Piazza M., Polastri A., Sartori R., Tomasi R., (2011), Test sismici su tavola vibrante di un edificio a tre piani in legno a pannelli portanti intelaiati, ANIDIS - Bari, Italia

Riggio M., Piazza M., Polastri A., (2010), Dynamic testing of wood utility poles, Structural Faults & Repair, Edinburgh, Scotland, UK

Riggio M., Piazza M., Polastri A., (2009), Structural Assessment of Wood Utility Poles: a Research in the Telephonic Network in Italy. In Proceedings of the 16th International Symposium on Nondestructive testing and evaluation of wood, Beijing, China: Beijing Forestry University, Beijing, China, p. 97-104

Polastri A., Tomasi R., Piazza M., Smith I., (2009), Moment resisting dowelled joints in timber structures: mechanical behaviour under cyclic deformation tests. Proceedings of International Symposium on Timber Structure, Istanbul, Turkey, T.C. Haliç Üniversitesi, Istanbul, p. 187-198

Polastri A., Tomasi R., Piazza M., Smith I., (2008), Ductility of Moment Resisting Dowelled Connections in Heavy Timber Structures. In: Proceedings of the 41th Meeting, International Council for Research and Innovation in Building and Construction, Working Commission W18 – Timber Structures, CIB-W18, St. Andrews, Canada, CIB-W 41-7-3