Dr. Carmen Sandhaas **(Germany)**

Karlsruhe Institute of Technology (KIT)

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COST FP1402, MC Member, WG3 Vice Leader

Personal	*Organisation*
Years of experience in relevant field: 5 Expertise: wood material and joint modelling, execution of tests, seismic behaviour of timber buildings Degree: PhD (01.06.2012)	Institute for Timber Structures and Building Construction (www.vaka.holz.kit.edu) Focus: theoretical and practical research/innovation and education, training. Facilities : testing lab (joint and element tests, shear wall tests, monotonic and cyclic tests, all relevant tests on fasteners), measuring equipment, drying chambers

No. of staff	PhD students	MSc/year
21	5	30

Research projects

WG2 CLT:

Contact joints in CLT (Tobias Schmidt)

CLT Beams (Marcus Flaig)

WG3 connections:

High-performance joints for engineered softwood and hardwood structures (Marcus Enders-Comberg)

Mechanical performance of timber joints with slotted-in steel plates (Carmen Sandhaas)

Publications

WG2 CLT:

Flaig, M., 2014, 'Design of CLT beams with rectangular holes and notches', Paper 47-12-4, Meeting 47 of International Network on Timber Engineering Research (INTER), Bath, United Kingdom, pp. 193-207.

Flaig, M., Blaß, H. J., 2014, 'Bending strength of cross laminated timber beams loaded in plane', Proceedings of the 13th World Conference on Timber Engineering (WCTE), Quebec, Canada.

WG3 connections:

Steilner, M., Blaß, H. J., 2014, 'A method to determine the plastic bending angle of dowel-type fasteners', RILEM bookseries 9: Materials and Joints in Timber Structures. Ed.: S. Aicher, Springer, Berlin, pp. 301-306.

Van de Kuilen, J. W. G., Sandhaas, C., Blaß, H. J., 2014, 'ASteel-to-timber joints with very high strength steel dowels using spruce, beech and azobé', RILEM bookseries 9: Materials and Joints in Timber Structures. Ed.: S. Aicher, Springer, Berlin, pp. 157-165.

Enders-Comberg, M., Blaß, H. J., 2013, 'Influence of holes in the compression area of members - Querschnittsschwächung bei Druckbeanspruchung parallel zur Faser', European Journal of Wood and Wood Products, Vol. 70, Issue 3, pp. 309-317..