

Prof.Dr. Christophe Sigrist (Switzerland)

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COST FP1402, WG2 Member



Personal

Years of experience in relevant field: 30
Expertise: Connections, grading, hardwood, testing, glulam, CLT, hybrid structures, standardisation work
Degree: PhD (01.01.1992)

Organisation

Architecture, Wood and Civil Engineering
(www.ahb.bfh.ch)
Focus: practical research/innovation, design of structures, execution of structures and education/training
Facilities: testing lab including universal testing machines (small clear testing to full scale testing), testing rig, climate chambers, U-value measurement, window testing, chemistry laboratory, robots

No. of staff	PhD students	MSc/year
115	-	12

Research projects

WG2: Solid / massive timber

Massivholzplatten für das Bauwesen - Berechnungsgrundlagen für mechanische Eigenschaften und Eckverbindungen, KTI-Projekt Nr. 5927.2 KTS, ETHZ / EMPA / SH-Holz

Zugfestigkeit von BSH-Lamellen. Kontrolle der Wirksamkeit der visuellen Sortierung zur Erzeugung von BSH gemäss Entwurf SIA 265: Holzbau", Buwal

European construction systems made of timber elements using innovative products (Pro-secco), Forschungsgemeinschaft SH-Holz, TU Graz, Blass & Eberhard Karlsruhe, Industrieauftrag Stora Enso Timber, Finnland

WG3 Hybrid Timber Structures

Hochleistungs-Hybridbausystem mit Holz und Stahl (HHHS), Commission for Technology and Innovation CTI, 1.4.2015 to 1.9.2018

Publications

WG2:

Sigrist C., Lehmann M: An integral production chain to reliably produce glued laminated timber, WCTE Auckland 2012, 16 -19 July, Proceedings; 2012

Sigrist C., Lehmann M: Development of a cross laminated, post tensioned bridge deck, WCTE Auckland 2012, 16 -19 July, Proceedings; 2012

Sigrist C., Lehmann M.: Potential of CLT produced from non-structural grade Australian pinus radiata, WCTE Quebec City 2014, 10 -14 August, Proceedings; 2014

Sigrist C.: Mechanische Eigenschaften von Brettschichtholz hergestellt aus visuell sortierten Fichtenbrettern, in SIA Dokumentation 0251 Neue Erkenntnisse zur Zuverlässigkeit von Brettschichtholz, ETH Zürich, Lignum, 2015

Sigrist C., Lehmann M.: Mechanical properties of glulam produced from visually graded boards, WCTE Vienna 2016, 22 -25 August, Proceedings; 2016

WP3: Connections

Nailed joints in engineered timber structures using Australian hardwoods, PhD Theses, School of Civil Engineering, University of Technology, Sydney, Australia, C.Sigrist, 1992

C. Sigrist, M. Howald, P. Niemz, (2007), Verbindungen und Verbindungsmittel an Brettspertholz, Tagungsband 39. Fortbildungskurs SAH 2007, Weinfeld, Seiten 157-174

