

Mr. Konstantinos Voulpiotis (**Switzerland**)

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COST FP1402, STSM Candidate



Personal

Years of experience in relevant field: 3
Expertise: Free form timber structures;
robustness of tall timber buildings

Degree: Master in Civil Engineering
(02.07.2015)

Organisation

Timber Structures, Institute of Structural
Engineering (<http://www.ibk.ethz.ch/en>)
Focus: theoretical and practical, research /
innovation, design of structures and education and
training
Facilities:
Variety of machinery for
tension/compression/bending/shear testing, climate
chambers, furnaces

No. of staff	PhD students	MSc/year
13	12	60

Research projects

WG 1:

[1] Influence of varying material properties on the load-bearing capacity of glued laminated timber; Dr. Gerhard Fink, Dr. Jochen Köhler, Prof. Dr. Andrea Frangi; completed (2014)

[2] Robustness in tall timber buildings; Konstantinos Voulpiotis, Dr. Robert Jockwer, Prof. Dr. Andrea Frangi; ongoing (started 2018)

WG 2:

[1] Biaxial Timber Flat Slab; Marcel Muster, Prof. Dr. Andrea Frangi; ongoing (started 2016)

[2] Fire behavior of cross-laminated solid timber panels; ongoing; M. Klippel, A. Frangi, M. Fontana

WG 3:

[1] Post-tensioned timber structures with hardwood; ongoing; Jelena Ogrizovic, Dr F. Wanninger, Prof. Dr. A. Frangi (started 2011, Dr. Wanninger PhD Thesis 2015)

[2] Truss structures made of beech LVL; Peter Kobel, Prof. Dr. A. Frangi; ongoing (started 2012)

WG 4:

[1] Timber-concrete composite slabs made of beech laminated veneer lumber with notched connection; Lorenzo Boccadoro, Prof. Dr. Andrea Frangi; completed (2016)

[2] Self-cambering timber-concrete composite slabs with micro-notches; Katharina Müller, Prof. Dr. Andrea Frangi; ongoing (started 2017)

Publications

WG 1: [1] Modelling the Bending Strength of Glued Laminated Timber - Considering the Natural Growth Characteristics of Timber; G. Fink, A. Frangi, J. Kohler; 46th Annual Meeting on Timber Structures (2013)

WG 2: [1] Materialbezogene Einflussparameter auf die Rollschubeigenschaften in Hinblick auf Brettsperrholz (in German); Thomas Ehrhart; Master Thesis, Graz University of Technology (2014)

[2] Rolling Shear Properties of some European Timber Species with Focus on Cross Laminated Timber (CLT): Test Configuration and Parameter Study; Thomas Ehrhart, Reinhard Brandner, Gerhard Schickhofer, Andrea Frangi; INTER - Meeting Forty-Eight (2015) [3] Simulation of the Fire Resistance of Cross laminated Timber (CLT); J Schmid, M Klippel, A Just, A Frangi, M Tiso; Fire Technology (2018) [4] Durchstanzverhalten von zweiachsig tragenden, durchlaufenden Brettsperrholzdecken (in German); Marcel Muster, Prof. Dr. Andrea Frangi; Holzbau Forschung + Praxis, Doktorandenkolloquium Stuttgart (2018)

WG 3: [1] Dowel-type connections in LVL made of beech wood; Peter Kobel, Prof. Dr. Andrea Frangi, Dr. Rene Steiger; INTER Proceedings, 47: 103-115, Timber Scientific Publishing, KIT Holzbau und Baukonstruktionen (2014)

WG 4: [1] Elasto-Plastic Model for Timber-Concrete Composite Beams with Ductile Connection; Andrea Frangi, Mario Fontana; Struct. Eng. Int., 13/1 (2003) [2] 4-Punkt Biegeversuche an Holz-Beton-Verbunddecken mit Mikrokerben (in German); Katharina Müller, Prof. Dr. Andrea Frangi; Holzbau Forschung + Praxis, Doktorandenkolloquium Stuttgart (2018)

