

Dr. Andreas Falk (Sweden)

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COST FP1402, MC Substitute Member, WG2 Member

*Personal*

Years of experience in relevant field: 15
 Expertise: Structural and architectural design of CLT, Wood material properties in structural applications, Innovative design of timber structures, Timber-based hybrid structures, Production chain perspective of refined engineered timber products.

Degree: PhD (30.11.2005)

Organisation

Civil and Architectural Engineering
 (<https://www.kth.se/en/abe/>)
 Focus: theoretical and practical research/innovation and education/training

Facilities: -

No. of staff	PhD students	MSc/year
120	70	300

Research projects

EnWoBio - Engineered Wood and Biobased Materials and Products Laboratory (2015-2017)
 Prof Magnus Wålinder, Dr Andreas Falk, Dr Kristoffer Segerholm, Prof Dick Sandberg (Luleå University of Technology, Sweden), Dr Anders Bystedt (SP Technical Research Institute of Sweden)

Hybrid structures for resource efficient construction (2015-2016)

Dr Andreas Falk, Prof Magnus Wålinder, Prof Tom Lindström

Multi-criteria optimisation of folded CLT-based shells (2008-2017)

Dr Andreas Falk, Prof Peter von Buelow (University of Michigan, US)

Publications

- Falk, A. and Wålinder, M. "Bio-based material hybrids seeking new applications in construction"; Proceedings of the IASS WORKING GROUPS 12 + 18 International Colloquium 2015: "Bio-based and Bio-inspired Environmentally Compatible Structures" Tokyo, Japan, A. FALK, P. VEGH and J. CHILTON (eds.), April 10-13, Tokyo Denki University, Tokyo 2015
- Falk, A. "Towards increased use of Bio-based Construction? – Architectural and Ecological Perspectives on Resource Management"; Proceedings of the International Association for Shell and Spatial Structures (IASS) 2014: "Shells Membranes and Spatial Structures: Footprints", Brasilia, Brazil 2014
- Falk, A. "Timber-Based Material Hybrid Systems for Improved Environmental Performance"; Proceedings of the International Association for Shell and Spatial Structures (IASS) 2013: "Beyond the Limits of Man", Wroclaw, Poland 2013
- Falk, A. "Cross-Laminated Timber: Driving Forces and Innovation"; Proceedings of the 2nd International Conference on Structures & Architecture 2013, Guimarães, Portugal 2013
- von Buelow, P., Falk, A. and Turrin, M. "Optimization of structural form using a genetic algorithm to search associative parametric geometry"; Proceedings of the 1st International Conference on Structures & Architecture 2010, Guimarães, Portugal 2010, pp. 609-706

