Dr. **Eva Frühwald-Hansson (Sweden)**
Lund university
Lund, Sweden
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COST FP1402, MC Substitute Member, WG1 Member

Personal	*Organisation*		
Years of experience in relevant field: 10 Expertise: safety of timber structures, durability and service life prediction of timber Degree: PhD (01.06.2007)	Division of Structural Engineering (www.kstr.lth.se) Focus: theoretical and practical research / innovation and education /training Facilities: testing lab for mechanical tests, vibration/acoustics testing, climate chambers etc.		
	No. of staff	PhD students	MSc/year
	5	5	10

Research projects

WG1 (Basis of Design):

- Risk management and service life design of timber constructions (start 2013, ongoing; PhD-student)
- Instability and Bracing of Slender Steel and Timber Structures (start 2012, ongoing; PhD-student)
- Conceptual design of structural systems - minimizing risks and uncertainties in the modern design process (start 2012, ongoing; PhD-student)
- WOODBUILD: Service life and performance of exterior wood above ground and wood in the building envelope (2008-2012, several senior researchers)
- Serviceability Design of Structures and Structural System (2009-2014, PhD-student)
- Survey and analysis of failures in timber structures (2005-2007, several senior researchers)

WG2 (CLT):

- some MSc-theses

WG3 (Connections):

- several MSc-theses, a guest researcher

WG4 (Hybrid Timber Structures):

- some MSc-theses and smaller senior researchers projects

Publications

WG1 (Basis of Design):

- Honfi, 2013: Design for Serviceability - A probabilistic approach, PhD-Thesis
- Honfi, Mårtensson, Thelandersson, 2012: Reliability of beams according to Eurocodes in serviceability limit state, Engineering Structures 35, p 48-54
- Frühwald, Serrano, Toratti, Emilsson, Thelandersson, 2007: Design of Safe Timber Structures - How Can we Learn from Structural Failures in Concrete, Steel and Timber? Report
- Thelandersson, Isaksson, Frühwald, Suttie, 2011: Service life of wood in outdoor above ground applications - engineering design guideline, Report
- Fröderberg, 2014; The human factor in structural engineering: A source of uncertainty and reduced structural safety, Licenciate thesis

WG4 (Hybrid timber structures)

- Crocetti, Sartori, Tomasi, Cabo, 2014: An innovative prefabricated timber-concrete composite system, Materials and Joints in TImber Structures, Vol 9, p 507-516
- Costa, 2011: Timber concrete composite floors with prefabricated fiber reinforced concrete, MSc-thesis