EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

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COST Action no. FP1004

Enhance mechanical properties of timber, engineered wood products and timber structures

2011 | 2013

Objectives

- The main objective of this Action is to enhance the performance of structural timber products and structures and thereby improve the competitiveness of timber structures
- Objective 1 for 2012 was to establish the state of research in the three working group
- Objective 2 for 212 was to understand the gaps in knowledge in the area of bonded rods for reinforcement and connections, to enable the research community to work towards an agreed code for design and construction

Main Achievements

- An ESR oriented conference in Zagreb in April 2012 met the requirements of Objective 1, through the publication of Conference proceedings. In addition it created opportunities for new networks to form between Early Stage and expert researchers
- A joint conference with COST Action FP1101
- A successful training school in Lund, Sweden in December 2012 hosted 26 ESR students from

Working Group 1

- Enhance performance of connections and structural timber in weak zones. Bonded rods towards codification.
- Wroclaw Conference in October 2012 assesses the state of practice in design, fabrication and construction
- Sub-group prepares proposals for review by the international code community

Working Group 2

- Enhance the mechanical properties of heavy timber structures with particular emphasis to timber bridges.
- Lead in the Cross-Laminated Timber initiative (Graz Conference and publication)

Working Group 3

- Modelling the mechanical performance of enhanced wood-based systems
- Brings together analytical aspects of all enhancement

Forests, their Products and Services (FPS)

Participating countries

AT, BE, BG, CH, CZ, DE, DK, EL, ES, FI, FR, HR, IE, IT, LT, MK, NL, NO, PL, PT, SI, SE, TR, UK

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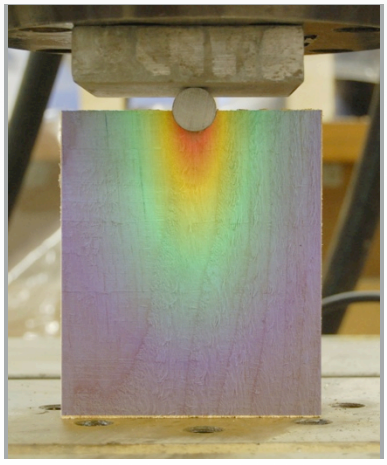

Strain field in dowel compression test
University of Bath

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