
 cost



 Action FP1004



## Working Group 1: Enhance performance of connections and structural timber in weak zones

Leader: Jan Willem VanDe Kuilen (DE) vandekuilen@wzw.tum.de

Deputy Leader: Roberto Tomasi (IT) roberto.tomasi@ing.unitn.it

Key tasks/ activities:

- Identifying and categorising weak zones (type of failure, relevance) and respective mechanical properties;
- Grouping of connections (load level, type of failure, dissipation of energy);
- Using glued-in rods or self-tapping screws as reinforcements;
- Using densified wood or modified wood;
- Using other Engineered Wood Products (EWP) e.g. plywood, LVL or crosslaminated timber (CLT) as reinforcement;
- Using fibre reinforced polymers (FRPs) as reinforcement
- Evaluation of design models and identification of respective gaps;
- Potential of non destructive test (NDT) methods in identifying weak zones;
- State-of-the art in reinforcing connections and weak zones;
- New jointing techniques (in cross-laminated elements, or in components created with CNC machines (direct timber contact)).



## **Working Group 2: Enhance the mechanical properties of heavy timber structures with particular emphasis to timber bridges**

Leader: Roberto Crocetti (SE) [roberto.crocetti@kstr.lth.se](mailto:roberto.crocetti@kstr.lth.se)

Deputy Leader: Kjell Arne Malo (NO) [kjell.malo@ntnu.no](mailto:kjell.malo@ntnu.no)

Key tasks/ activities:

- Identification of properties to be enhanced;
- More effective timber decks as a result of effective pre-stressing;
- Increase stiffness and strength by reinforcement;
- Energy dissipation capacity of structures.



### **Working Group 3: Modelling the mechanical performance of enhanced woodbased systems**

Leader: Daniel Ridley-Ellis (UK) [d.ridleyellis@napier.ac.uk](mailto:d.ridleyellis@napier.ac.uk)

Deputy Leader: Vanessa Baño Gómez (ES) [vbanho@cetemas.es](mailto:vbanho@cetemas.es)

Key tasks/ activities:

- Identification of properties to be enhanced
- Material properties needed in numerical models
- Design and performance models of enhanced timber structures
- Cracks parallel to the grain related to moisture content variations and different longitudinal shrinkage



Kay-Uwe Schober (DE) - **STSM Manager**

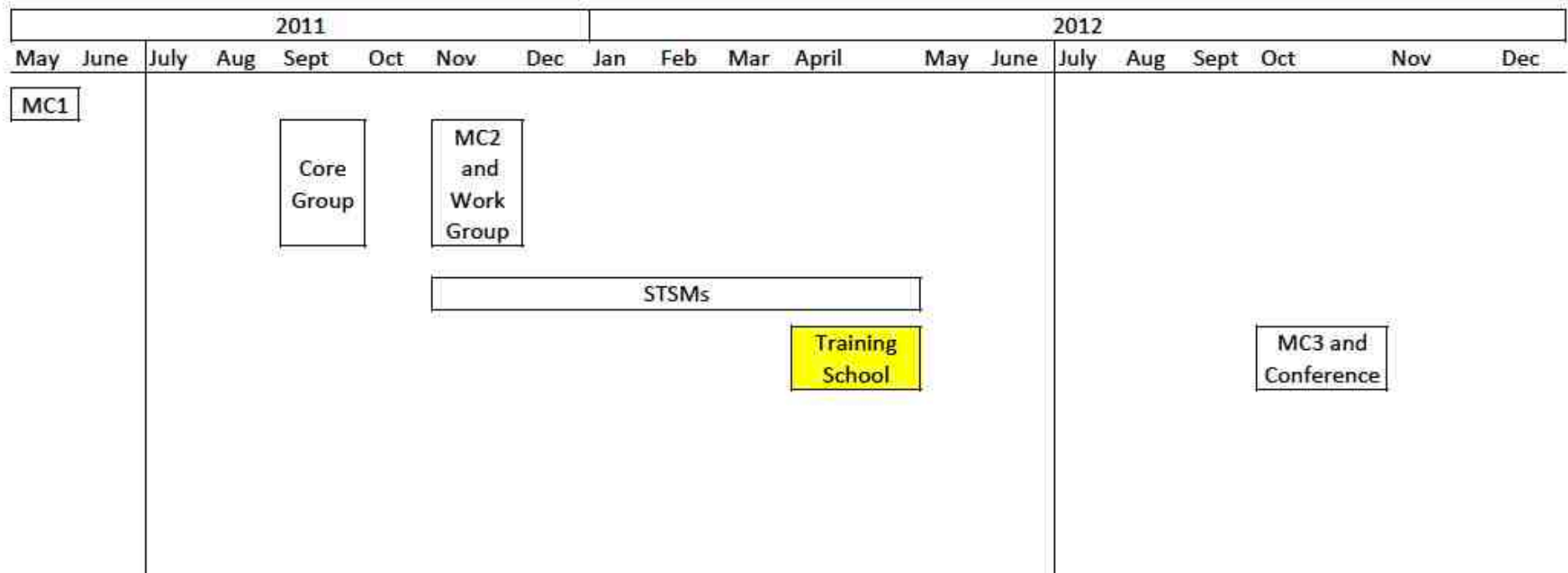


Budget: 1 July 2011 to 30 June 2012

STSMS (6 No)	€12,000
Meetings	€62,800
• Meeting travel costs	€61,600
• Workshop support	€1,200
Training School	€16,200
Dissemination	€3,000
OERSA	€260.87
Scientific Expenditure	<b>€94 260.87</b>
Grant Holder	<b>€14 139.13</b>
Budget	<b>€108,400</b>

# Programme

– revision existing







# This meeting

- Full paper by Mon 5 March 2012
- Use the template
- Papers to be published
- ISBN Number
- Plus published on website



# Next meeting - ESR – April 16-17 2012



Each year one of the workshops of the Action should involve Early Stage Researchers (less than PhD + 8 years) to strengthen links with each other and with experienced scientists involved in the management of the Action.

# Next meeting

- ESR-biased
- April 16-17 2012



- Papers selected from those submitted for this meeting
- Invitation to present by 1 Feb 2012
- As many as possible from Early Stage Researchers (ESR's)
- Agree three topics at this meeting
- Ten papers on each topic if possible

# ESR-biased Meeting

## Attendees- 16-17 April 2012



- Topics agreed
- Proper evaluation
- Presenters invited
- Priority to ESR's
- Remainder – limited by COST Rules
- Total delegates lited by available budget
- MC members do not have priority – No MC meeting
- Depending on organiser, as many as want to attend can attend but number reimbursed is limited

# ESR-biased Meeting

## Attendees- 16-17 April 2012



- Presenters (30 if possible) reimbursed
- If more spaces – reimbursed attendees to be determined later
- Depending on host, reimbursement may be less than €120 per night

# FP1004 Conference October 2012



- State-of-the-art conference
- Industry and academics
- How can we maximise attendance of industry at English-language conference?

# FP1004 Training School November 2012

- Lund
- Topics and trainers to be agreed



# Existing budget



Budget: 1 July 2011 to 30 June 2012

STSMS (6 No)	€12,000
Meetings	€62,800
• Meeting travel costs	€61,600
• Workshop support	€1,200
Training School	€16,200
Dissemination	€3,000
OERSA	€260.87
Scientific Expenditure	<b>€94 260.87</b>
Grant Holder	<b>€14 139.13</b>
Budget	<b>€108,400</b>



# Proposed new budget



STSMS (6 No)	€12,000
Meetings	€79,000
• Meeting travel costs	€77,000
• Workshop support	€2,000
Training School	-
Dissemination	€3,000
OERSA	€260.87
Scientific Expenditure	<b>€94 260.87</b>
Grant Holder	<b>€14 139.13</b>
<b>Budget</b>	<b>€108,400</b>

MC2 and work group meeting approx. €30,000, leaving approx. €47,000 for ESR-biased Conference Some of this money could be used for STSMs