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Action FP1004



Welcome to
COST Action FP1004
Management Committee Meeting MC3

Agenda

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Minutes of Meeting MC2

Minutes of the 2nd Management Committee Meeting

COST Office
Avenue Louise 149, Brussels, Belgium

9-10 November 2011

Chair: Richard Harris Secretary: Dan Ridley-Ellis

0. Welcome to participants

A total of 38 participants from the following 20 Parties attended the meeting: Austria (AT), Belgium (BE), Bulgaria (BG), Switzerland (CH), Czech Republic (CZ), Germany (DE), Denmark (DK), Spain (ES), France (FR), United Kingdom (UK), Greece (EL), Croatia (HR), Italy (IT), Ireland (IE), Former Yugoslav Republic of Macedonia (MR), Norway (NO), Portugal (PT), Poland (PL), Sweden (SE), Slovenia (SI)

With 20 of the 23 (87%) Parties having accepted the MoU to date represented at this meeting the quorum of 2/3 required under the COST rules (specifically COST 4159/10 Annex II Article 8) is attained.

1. Adoption of agenda

The Management Committee agreed to adopt the tabled agenda without modification.

2. Minutes of last meeting

Minutes of the previous Management Committee had been circulated by email. The Management Committee agreed to accept the minutes without modification.

3. Matters arising

There were two matters arising in the minutes of the previous meeting:

"The MC provisionally appointed Dan Ridley-Ellis (d.ridleyellis@napier.ac.uk) as the Action Secretary although new joining members will be asked if they would like to take this role at the next MC meeting (e.g. Annette Harte, annette.harte@nuigalway.ie). An appointment that assists with the desire for representation for early stage researchers is preferred."

The post of Action Secretary was offered to all MC members with an encouragement to early stage researchers to volunteer. Dan Ridley-Ellis said that he would assist a volunteer in undertaking this role for the first few meetings. No volunteers came forward during the meeting but MC members were invited to consider the vacancy between now



and the next MC meeting. Dan Ridley-Ellis will continue to undertake this role for the time being. **[Action: All (especially ESRs) to consider volunteering for the role of Secretary]**

“A proposal was made to form a Task Group on the subject of Cross Laminated Timber. This idea was deferred for discussion at the first Workshop.”

This matter had not been discussed so far at this workshop and was in relation to a future training school. Since the training schools were under discussion at this meeting this matter was deferred to the next meeting. **[Action: All interested in CLT to consider the matter and discuss at the next full meeting]**

4. Report from the COST Office

- News from the COST Office
- Status of Action, including participating countries
- Budget Status, budget planning and allocation process

COST office representative Cassia Azevedo Zezzi said that she had nothing at this time to add to the information presented by Melae Langbein at the previous MC meeting and recorded in the minutes. Ms Azevedo Zezzi attended for the remainder of this MC meeting in order to answer questions.

5. Progress report of working groups

The working groups had met the previous day with instructions to review the brief laid out in the MoU, their membership and future work within this COST Action. There had been concern that the working groups would be unbalanced (with most people interested in WG1) but this did not appear to be the case.

Membership of the working groups was discussed. There has not yet been made a definitive list of WG members and since many people are interested in more than one WG it was asked if it was a requirement of COST that a membership list of working groups be made. Ms Azevedo Zezzi said that it was advisable, but not necessary. It was agreed that communications about WG activity should, for the meantime at least, be sent to all MC members. Mechanisms for this were briefly discussed but for the moment the Action website (agenda item 12) would be the place to go to stay informed.

Dan Ridley-Ellis said that he had received a good number of responses to the online survey that was collecting contact details of people interested in this COST Action together with WG preference.



[Action: Dan Ridley-Ellis to send the information collected in the online survey to Jan Willem Van De Kuilen so that a mailing list can be produced]

The Working Group leaders reported on the outcome of their meetings the previous day. The text in the MoU was reviewed and its intention clarified.

Scientific area 1 – WG1: Enhance performance of connections and structural timber in weak zones

In this area, scientific activities focus on increasing and consolidating the current knowledge of structural behaviour of timber and connections in weak zones and how to improve/enhance performance and reliability. This scientific area includes:

- 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 cross-laminated 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)

The key issues to be addressed for the research tasks are:

- i) Resistance to crack propagation
- ii) Resistance to tension perpendicular to grain and shear
- iii) Enhancement of strength at supports and connections
- iv) Compression perpendicular to grain – supports
- v) Compression parallel and perpendicular to grain – pre-stressing
- vi) Ductility and energy dissipation capacity of connections and reinforcements,

For the above areas, the strength and stiffness enhancement will be achieved mainly by means of the following techniques available:

- a) Screws and steel rods
- b) Fibre Reinforced Polymers (FRP)
- c) Densified wood
- d) Other engineered wood products
- e) New developments



Scientific area 2 –WG2: Enhance the mechanical properties of heavy timber structures with particular emphasis to timber bridges.

In this area, scientific activities focus on increasing and consolidating the current knowledge of reinforcing techniques used for heavy timber structures, in particular for timber bridges and how to improve/enhance performance and reliability. This scientific area includes:

- 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

The key areas for the research tasks are:

- i) Enhance the load-carrying capacity at the anchorage zones of pre-stressing bars in stress-laminated timber bridges
- ii) Enhance the performance of large-span structures by means of innovative connections
- iii) Seismic dissipation capability of heavy timber structures (multi-storey buildings, large-span structures, etc.)
- iv) Timber-concrete composite structures with innovative shear connectors
- v) Increase the level of prefabrication of heavy timber structures, mainly by use of innovative connection systems
- vi) Increase the level of safety of existing timber structures, by means of reinforcing techniques
- vii) Study of new shapes and technologies for enhancing the structural performance of large-span structures;
- viii) Enhance the serviceability performance of timber elements and systems sensitive to vibration problems
- ix) Adequate bracing system for enhancing robustness of large span structures

For the above areas, the strength and stiffness enhancement will be achieved mainly by means of the following techniques available:

- a) Screws and steel rods
- b) Fibre reinforced polymers (FRP)
- c) Densified wood
- d) Other engineered wood products
- e) New developments

Scientific area 3 – WG3: Modelling the mechanical performance of enhanced wood-based systems

In this area, scientific activities focus on increasing and consolidating the current knowledge of mechanical and structural behaviour of timber elements and systems - with enhanced performance - by use of advanced numerical modelling and analysis.

This scientific area includes:



- Identification of properties to be enhanced and experimental determination of those properties
- Material properties needed in numerical models
- Design and performance models of enhanced timber structure
- Static, dynamic, environmental, fire and accidental action
- All durations and including stability and large deformations
- Cracks parallel to the grain related to moisture content variations and different longitudinal shrinkage

The key areas for the research tasks are:

- i) Mechanical behaviour of clear wood
- ii) Mechanical behaviour of Engineered Wood Products, Modified Wood Products and Wood Composites (e.g. glulam, laminated veneer timber, cross-laminated timber, etc.)
- iii) Structural behaviour of full-size timber elements
- iv) Structural behaviour of reinforced and unreinforced timber joints
- v) Structural behaviour of curved timber elements - with and without reinforcement – subjected to positive bending moment
- vi) Structural behaviour of timber elements with holes and/or notches, both with and without reinforcement
- vii) Structural behaviour of carpentry joints, with and without reinforcement

For this scientific area, the following analysis tools will be adopted:

- a) Finite element modelling
- b) Fracture mechanics
- c) Continuum mechanics
- d) Failure criteria (e.g. Tsai-Wu criterion)
- e) Weibull weakest link theory

The scope of the COST Action was discussed with reference to FP1101 and it was agreed that these two related COST Actions work in coordination. There is some potential overlap of topics and it was agreed that while FP1101 gets started, topics related to assessment and repair of existing structures could be covered within this COST Action.

6. Action planning

6.1 Annual Progress Conference (preparation and/or feedback from DC)

As required under the COST rules (specifically COST 4113/11) a FPS Domain Annual Progress Conference (APC) is held each year. FPS Action Chairs have been advised of the documents that must be submitted for the APC. This includes a summary of the Action, a progress report and a financial report. At the time of this meeting this Action will have been running for about 10 months. The MC raised no further matters for discussion and agreed that chairman Richard Harris would report to the APC that the Action had begun.



6.2 Action Budget Planning

The MC agreed that since it was not practically possible to organise the first training school within year 1 that the budget allocated for this could be used instead for a meeting focussed on ESRs. Richard Harris had already checked with the COST office that this was possible within the rules (with justification for the change) and Ms Azevedo Zezzi confirmed that this was the case.

The MC agreed the following budget.

Budget: 1 July 2011 to 30 June 2012

Item	Previous budget	New budget
STSMS (6 No)	€12,000	€12,000
Meetings	€62,800	€79,000
• Meeting travel costs	€61,600	€61,600
• Workshop support	€1,200	€1,200
Training School	€16,200	€0
Dissemination	€3,000	€3,000
OERSA	€260.87	€260.87
Scientific Expenditure	€94 260.87	€94 260.87
Grant Holder	€14 139.13	€14 139.13
Budget	€108,400	€108,400



6.3 Action Planning (including meetings)

6.3.1 Location and date of next meeting

The next meeting would be a teleconference meeting of the Core Group.

The next actual meeting would be the additional meeting in place of the training school agreed under agenda item 6.2. Following discussion a date of 19-20 April was agreed for the meeting. Vlatka Rajcic (Croatia) offered to host the meeting although this would need to be confirmed after further discussion with the Core Group and University of Zagreb regarding location, budgets etc.

WG leaders provided themes for this meeting:

WG1: Glued rods and screws for reinforcing weak zones and connections in timber

WG2: Influence of connections on whole structure response in timber structures

WG3: modelling of basic wood behaviour and of connections with glued in rods and self-tapping screws.

Early Stage Researchers would be strongly encouraged to participate in this meeting. The budget would need to be reviewed in light of the expense of this meeting, but it is anticipated that about 50 reimbursements could be provided for this meeting. It is hoped to attract 30 papers, whose presenters would be reimbursed. As many of these reimbursements as possible will be reserved for ESRs and no MC members will automatically be allocated a reimbursement (there will be no MC meeting), although MC members can participate if they fund their own attendance. It was pointed out that strict signing of attendance lists will be necessary at the meeting.

It is likely that papers would be based on projects presented to MC members at the meeting on 9 November 2011. Kay-Uwe Schober has issued a template for the papers and MC member were asked to encourage ESRs to submit papers. The deadline for submission of papers would need to be 6th February on order to produce a publication with ISBN within this year's budget (Agenda item 8). Following this date, it was agreed that the Core Group will select papers for presentation as quickly as possible so that invitations can be issued. Jan Willem van der Kuillen proposed that one or two experts in the field of screws/bonded rods be invited to give keynote presentations.

6.3.2 Long-term planning (including anticipated locations and dates of future meetings)

The next WG and MC meeting would be in October 2012. This "state of the art" meeting would fall shortly before the first training school, which would be in November or December 2012 at Lund, Sweden. The organiser for this training school is Roberto Crocetti. This is based on an existing course in advanced timber engineering that takes



place every four years. Roberto has taken over running of this course and is currently writing a proposal for course topics. The MC approved this plan.

Since the start of COST Action FP1004, a new COST Action, FP1101 Assessment, Reinforcement and Monitoring of Timber Structures has begun. It was agreed that in the work of COST Action FP1004, there should be collaboration with FP1101. It was further agreed that at present COST Action FP1004 has clear topics to develop and joint working, for example a joint meeting, would be something to consider in later years of the COST Action.

[Action: MC members to consider hosting the October meeting and discuss with Richard Harris].

7. STSM status, applications

STSM manager Kay-Uwe Schober reported that he had received 3 proposals for STSMs so far. There are already intentions for at least a further 2 or 3. The target is 6 per year. The MC was informed that STSMs for researchers going to Australia and New Zealand would come from a separate budget and so could be in addition to these 6 STSMs. Members are encouraged to contact Kay-Uwe as soon as possible if they wish to submit a proposal as there would most likely be more proposals than could be funded and the STSMs have to be complete by May in order for the finances to be processed in time for the end of this COST Action year.

[Action: All considering submitting proposals for STSM to contact Kay-Uwe Schober as soon as possible]

8. Publications, dissemination and outreach activities

This meeting began the process for collection of state-of-the-art papers and it is proposed to publish these in a report to be presented at the next full meeting (October 2012). This publication would carry an ISBN and be available in both hard copy and e-publishing format. The MC approved the use of the €3,000 dissemination budget for this purpose.

The Action's new web page and logo was covered under agenda item 12.

9. Request for new members

New member countries are able to join the action until the first anniversary (30th May 2012) after which new member countries can join with MC approval. Part of the budget is proportional to the number of participating countries and so additional members would permit also additional reimbursements in future years. Antanas Baltrusaitis attended this meeting and Lithuania is intending to sign the MoU.



[Action: Robert Kliger to contact representatives of further countries (Latvia, Estonia etc.) for possible membership as agreed in the Core Group meeting]

10. Promotion of gender balance and of Early Stage Researchers (ESR)

Richard Harris observed that while the gender balance of the meeting was far from equal, it was good for engineering.

The MC was reminded to encourage ESRs to participate at the planned meeting in April 2012. It was suggested that participation might be positively skewed towards female researchers, but the MC agreed instead that quality of papers be the deciding criterion for reimbursements and that participation of female researchers be instead encouraged through invitations to submit papers to the meeting.

11. Non-COST country participations

University of British Columbia (Canada) and University of Technology (Sydney) are already in this COST Action. The University of Auckland (New Zealand) is expected but not currently signed up.

[Action: Richard Harris to email Pierre Quenneville to enquire on joining the Action]

12. Web news

Jan Willem Van De Kuilen presented the new Action website <http://costfp1004.holz.wzw.tum.de> and logo. The website has a mailing address for contacting the webmaster and a link to the COST webpage for the Action. A reciprocal link will be made by the COST office now they know the address of Action website.

The website also has pages for the management committee, and steering committee names (to be checked for typographical errors) as well as pages for each of the Working Groups that will contain descriptions of WG activity and, perhaps, membership.

There are menu headings for the meetings under which details and documents can be placed. Ms Azevedo Zezzi confirmed that MC minutes were not to be made public and there was some discussion about the need for a secure area on the website. DC rapporteur Radovan Despot informed the MC that all Action publications must be held in a secure area prior to the end of the Action as they are, until this time, considered working drafts.

There is a page for STSMs, which will contain instructions on how to submit proposals and contact details for STSM manager Kay-Uwe Schober. At the moment this page holds a guidance document about STSMs (not the COST one).



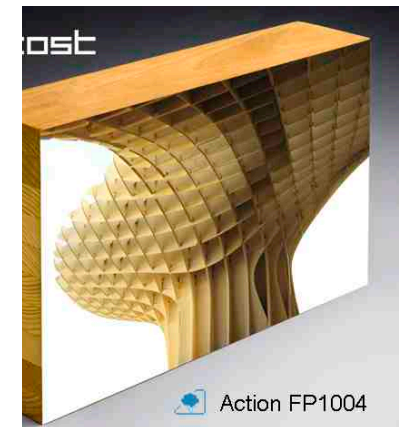
	Action Point from CGM1	Report
1	Possible participation of Estonia, Latvia, Lithuania, Slovakia	Lithuania have joined FP1004 Latvia and Slovakia to be encouraged to join
2	Possible participation of Belarus	Not pursued
3	Collaboration with FP1001 – possible joint meeting in April 2012. Speak with Bo Kasal	Proceeding
4	Propose no training school in 2011/12 year of COST Action. Propose to MC2 that funds be moved from training school to STSM and/or meeting budget with emphasis on ESRs	See actions from CGM2
5	Propose to MC2, subject to availability of funds, a second MC and Workgroup meeting in April 2012	Only one MC meeting required. April conference in Zagreb aimed at Early Stage Researchers
6	Possible locations of meetings to be discussed with country representatives at Nov meeting in Brussels (Croatia?, Poland?)	Meeting held in Croatia (Zagreb)
7	Prepare agenda (MC2 and Workgroups – Nov 2011)	Completed
8	Prepare template for country presentations	Completed
9	No additional invitations for Nov 2011 Work Group Meetings	-
10	List to be prepared of experts and ESR for consideration for invitation to April 2012 Work Group Meetings	Ongoing
11	Training school for 2012/13 year of	See CGM2



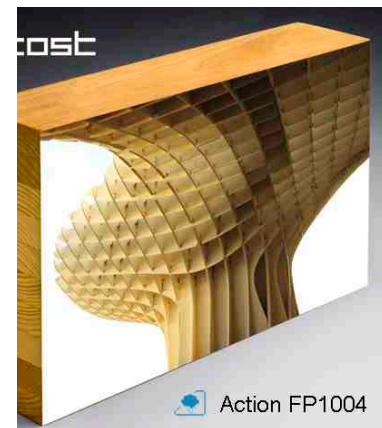


	Action Point from CGM1	Report
	COST Action -proposed to be held at Lund, in collaboration with PhD course. Create list of potential experts to present.	
12	Action FP1004 Logo - Jan Willem to prepare proposal	Logo now in use
13	Folder and Poster for FP1004	Completed
14	Next meeting – prior to proposed April 2012 meeting	Meeting not held
15	RH requested that emails be sent to fp1004grantholder@bath.ac.uk cc'd to r.harris@bath.ac.uk	Done

Decisions CGM2	
1	State of the Art presentations from MC1 to be published on FP1004 website
2	Focus of FP1004 for first part of 2012/13 to be on bonded-in rods
3	Seminar and meetings on bonded rods to be held 18-19 October in Wroclaw, Poland. This will produce a State of the Art review of bonded rods, which will be used to inform policy on codification in Eurocode. Topics for seminar may include Design, Manufacture, Durability, Fatigue, Adhesives, Test procedures. Number of participants to be reimbursed from COST Action FP1004 to be 50, including 24 MC members, 12 expert speakers and 12 other invitees (Work Group Leaders and ESRs). Second day of the meeting will include MC Meeting.
4	Focus of FP1004 for second part of 2012/13 to be on Cross Laminated Timber (CLT)
5	Conference on CLT to be held (venue to be agreed) 11-12 April 2013. Around 50 participants to be reimbursed plus WG1 members to follow up on bonded rod meeting and agree actions.
6	Focus of FP1004 for first part of 2013/14 (if grant continues) to be on timber bridges
7	Training school to take place in Lund 10-14 December 2012. Course to be free to participants, who will receive a fixed lump sum grant to cover travel and accommodation, regardless of origin. Year 2 Budget to include €18,000 for training school. Details to be agreed.
8	Only one attendee to be automatically reimbursed from each country for future Management Committee meetings
9	Ye2 Budget to include €9600 for 2 Core Group meetings. Other Core Group Meetings meetings to be by Skype or similar. Organiser of upcoming workshop to be invited to Core Group.
10	Increase STSM budget to €17,500 for 2012/13. STSMs to be linked to MoU deliverables



	Action Point CGM2	Action
1	Possible participation of Estonia, Latvia, Slovakia. FP1004 members to encourage these countries to join FP1004	All
2	Possible participation of Hungary	RK
3	Possible participation of South Africa	RH
4	Website activation. Ask JWvdK about situation	RH
5	Ask Melae Langbein about what is allowed on FP1004 website. What is allowed for full public access? What must be kept for limited access by MC members until the end of the action? (MC1 minutes)	RH
6	Zagreb conference proceedings to be published by end June 2013	RH / K-US
7	Invitees to speak at bonded rod seminar. These speakers to be experts in bonded-in rod technology (research and practice). Initial prepared at the meeting to be agreed with Work Group 2 of FP1101 and then finalised by agreement of Core Group.	RH/All
8	Once list of bonded rod experts agreed, they are to be invited	RH
9	Training school in Lund. Each Core Group Member to put forward 5 to 10 topics for training school delegates to choose as an assignment following the course	All
10	Venue for conference on CLT – approach possible hosts	RH
11	Possible training school on CLT in 2013/14. Contact Gerhard Schickhofer	RH
12	Use of internet conference facilities for future meetings. Investigate use of Adobe Conference	RK
13	Use of internet conference facilities for future meetings. Investigate use of Skype	RH
14	Next Core Group Meeting: FP1004 Core Group Meeting Friday 16 November. To include host of Spring Conference	All



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

Zagreb 18-19 April 2012

37 presenters

The Authors / Presenters

(in chronological order of their presentations)

Presenter

Contact

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Dean Cizmar
Milav Stepić
Krunoslav Pavlovic
Daniele Casagrande
Ermanno Auler
Roberto Tomasi
Telmo Morgado
João Custódio
Per Johan Gustafsson
Robert Widmann
Gerhard Fink
Robert Jockwer
Peter Kobel
Jonathan Skinner
James Walker
Markus Jahreis
Jens Müller
Haris Stamatiopoulos
Vanessa Baño
Tiziano Sartori
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ESR-biased Meeting Zagreb 18-19 April 2012 Rapid selection by Core Group



No	First Author	ESR Author	Country	Institution	Kay-Uwe	Kay-Uwe	Dan	Jan-Willem	Roberto
1	Gochev		Bulgaria	University of Forestry 01	X	No	No		no
2	Hasan	Hasan	Croatia	University of Zagreb, Forestry 01	X	local	local		no
3	Rajcic		Croatia	University of Zagreb, Civil Eng. 01	X	local	local		no
4	Rajcic		Croatia	University of Zagreb, Civil Eng. 02	1	local	Yes		yes wg2
5	Rajcic		Croatia	University of Zagreb, Civil Eng. 03	1	local	WG3		yes
6	Melzerova		Czech Republic	Czech Technical University 01	X	Yes?	WG3		no
7	Popovic Larsen		Denmark	KADK 01	2	Yes?	NO		yes wg2
8	Lartigau		France	Institute of Mechanics and Eng. 01	3	Yes?	Yes		yes
9	Rautenstrauch	Dorn	Germany	Bauhaus-University 01	1	Yes?	Yes		yes wg2
10	Rautenstrauch	Hädickel	Germany	Bauhaus-University 02	3	Yes?	Yes		yes
11	Rautenstrauch	Jahreis	Germany	Bauhaus-University 03	2	Yes?	Yes		yes
12	Rautenstrauch	Müller	Germany	Bauhaus-University 04	2	Yes?	Yes		yes wg2
13	Flaig		Germany	KIT 01	3	Yes?	Yes WG3		yes
14	Schober		Germany	Mainz University of Technology 01	3	Yes?	Yes		yes
15	Becker	Weber	Germany	Trier University of Technology 01	3	Yes?	Yes		yes
16	Gavric		Italy	University of Trieste and Sassari 01	3	Yes?	Yes WG3		yes
17	Rinaldin		Italy	University of Trieste and Sassari 02	3	Yes?	Yes		yes
18	Casagrande		Italy	University of Trento 01	1	Yes?	Yes also WG3		yes wg2
19	Acier		Italy	University of Trento 02	1	Yes?	Yes also WG3		yes
20	Andreoli		Italy	University of Trento 03	1	Yes?	Yes		yes
21	Giongo		Italy	University of Trento 04	1	Yes?	Yes		yes
22	Baltusaitis		Lithuania	Kaunas University of Technology 01	X	No	No		no
23	Baltusaitis		Lithuania	Kaunas University of Technology 02	X	No	No		no
24	Calado		Macedonia	University of Skopje 02	X	Yes?	FP1101?		no
25	Malo	Stamatopoulos	Norway	NTNU 01	2	Yes?	Yes		no
26	Malo		Norway	NTNU 03	X	No	No		no
27	Bell		Norway	NTNU 04	2	No	Yes frnt ESR		yes wg2
28	Bell		Norway	NTNU 05	3	No	No		no
29	Köhler		Norway	NTNU 06	3	Yes?	WG		yes
30	Xavier		Portugal	CITAB 01	3	Yes?	WG3		yes
31	Dourado		Portugal	CITAB 02	3	Yes?	Yes		yes
32	Monteiro		Portugal	University of Coimbra 01	X	Yes?	perhaps WG3		no
33	Morgado		Portugal	University of Coimbra 02	1	Yes?	Yes		yes
34	Rodrigues		Portugal	University of Coimbra 03	2	Yes?	No		no
35	Custodio		Portugal	LNEC 01	1	Yes?	Yes		yes
36	Gaspar		Portugal	LNEC 02	1	Yes?	WG3 not ESR		no
37	Palma		Portugal	LNEC 03	1	Yes?	FP1101?		yes
38	Feio		Portugal	University Luslada 01	X	Yes?	FP1101		no
39	Sustersic		Slovenia	University of Ljubljana	1	Yes?	WG3		yes
40	Srnjic		Slovenia	ZAG	1	Yes?	FP1101?		no
41	Sernek		Slovenia	WST 01	1	Yes?	No WG3?		no
42	Sernek		Slovenia	WST 02	1	Yes?	Yes		no
43	Bano		Spain	CETEMAS 01	X	Yes?	WG3? Bano		no
44	Diste		Spain	CETEMAS 02	X	Yes?	WG3? Bano		no
45	Bano		Spain	CETEMAS 03	2	Yes?	Yes		yes wg2
46	Aira		Spain	Technical University of Madrid 01	3	Yes?	Yes		yes
47	Fernandez-Cabo	Bona-Gallego	Spain	Technical University of Madrid 11	X	Yes?	Yes WG1?		yes wg2
48	Guaíta		Spain	University of Santiago de Com.01	3	Yes?	Yes		yes
49	Guaíta		Spain	University of Santiago de Com. 02	3	Yes?	Yes		yes
50	Guaíta		Spain	University of Santiago de Com. 03	3	Yes?	Yes...if ESR		yes
51	Crocetti		Sweden	Lund University of Technology 01	1	Yes?	Yes		yes
52	Sartori		Sweden	Lund University of Technology 02	1	Yes?	Yes...if ESR		yes wg2
53	Frangi	Jockwer	Switzerland	EMPA 01	1	Yes?	Yes		yes
54	Widmann	Jockwer	Switzerland	EMPA 02	1	Yes?	Yes		yes
55	Fink		Switzerland	ETH Zürich 01	1	Yes?	Yes WG3		yes
56	Jockwer		Switzerland	ETH Zürich 02	1	Yes?	Yes WG3		yes
57	Kobel		Switzerland	ETH Zürich 03	1	Yes?	Yes		yes
58	Reynolds		United Kingdom	University of Bath 01	1	Yes?	?		yes
59	Skinner		United Kingdom	University of Bath 02	1	Yes?	Yes		yes
60	Walker		United Kingdom	London South Bank University 01	1	Yes?	Yes if ESR WG3		yes

	WG1	WG2	WG3	Total
Number of papers	15	11	20	46
Rejected	12			
Local	2			

Decision	Presenter	email	ESR?	Reimbursement
0				0
Local 10	Hasan		Y	10 local
Local 10	Rajcic		X	10 local
WG2 2	Rajcic		X	local
WG3 3	Rajcic		X	local
WG3 3	Melzerova		X	2
WG3 2	Popovic		X	2
WG3 3	Lartigau		Y	1
WG2 2	Dorn (2)		Y	1
WG3 3	Hädickel (2)		Y	1
WG2 2	Jahreis (2)		Y	1
WG2 2	Müller (2)		Y	1
WG3 3	Flaig		Y	1
WG3 3	Schober		Y	1
WG3 3	Weber (2)		Y	1
WG3 3	Gavric		Y	1
WG3 3	Rinaldin		Y	1
WG1 1	Casagrande		?	3
WG1 1	Acier		?	3
WG1 1	Andreoli		?	3
WG1 1	Giongo		?	1
No 0	X			0
No 0	X			0
No 0	X			0
No 0	X			0
WG2 2	Stamatopoulos (2)		Y	1
No 0	X			0
WG2 2	Bell/Malo (2)		X	2
No 0	X			0
WG3 3	Köhler		Y	1
WG3 3	Xavier		Y	1
WG3 3	Dourado		?	3
No 0	X			0
WG1 1	Morgado		Y	1
WG2 2	Rodrigues		Y	1
WG1 1	Custodio		Y	1
WG3 3	Gaspar		X	2
No 0	X			0
No 0	X			0
WG3 3	Sustersic		Y	1
No 0	X			0
No 0	X			0
No 0	X			0
WG3 3	Bano		Y	1
WG3 3	Diste		Y	1
WG2 2	Bano		Y	1
WG3 3	Aira		Y	1
WG2 2	Bona-Gallego (2)		Y	1
WG3 3	Bano (2)		X	2
WG3 3	Guaíta		X	2
WG1 1	Crocetti		N	2
WG2 2	Sartori		?	3
WG1 1	Jockwer (2)		?	1
WG1 1	Jockwer (2)		Y	1
WG1 1	Fink		Y	1
WG1 1	Jockwer		Y	1
WG1 1	Kobel		Y	1
WG1 1	Reynolds		Y	1
WG1 1	Skinner		Y	1
WG1 1	Walker		?	1

	ESR	Other	Unknown	Total
Reimburs ments	29	6	5	40
Rejected	12			
Local	2			

ESR-biased Meeting

Zagreb 18-19 April 2012

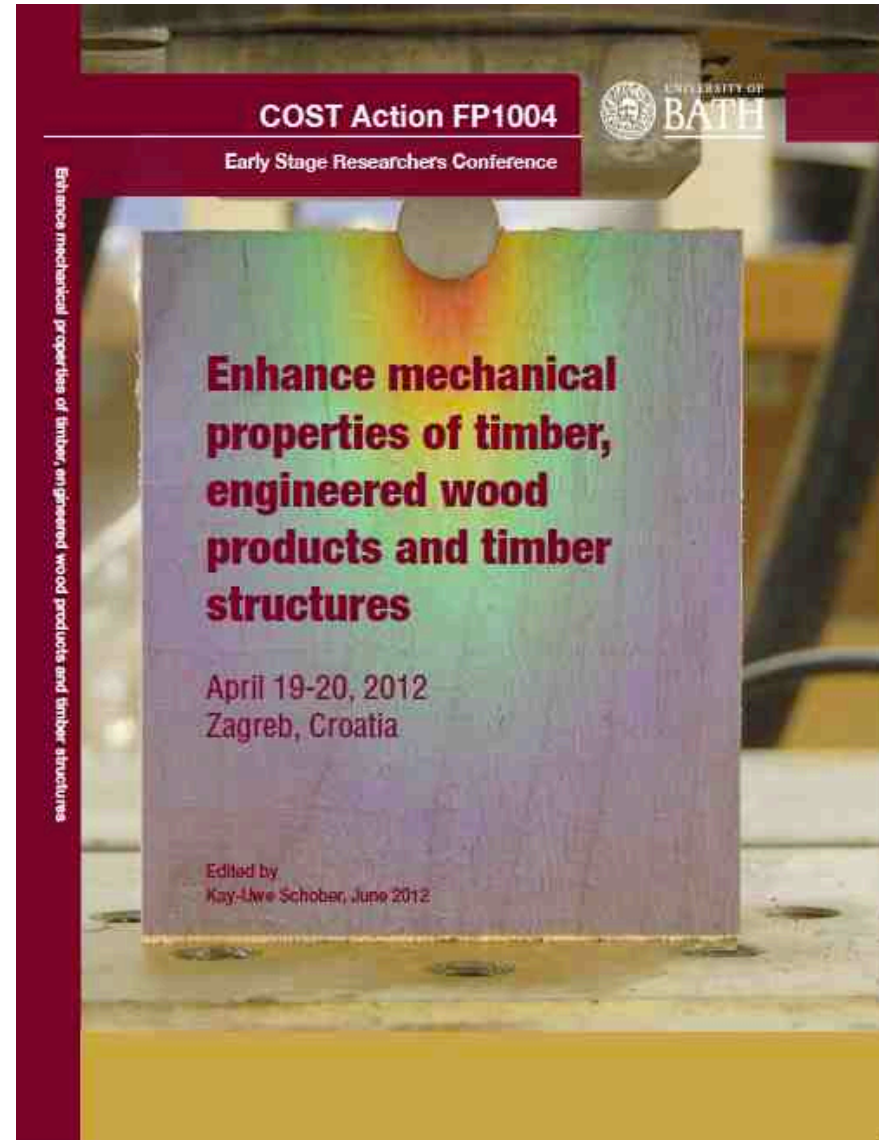
55 invitees – 47 attendees – 25 ESRs



Gramatikov	Declined	X
Acler		?
Ara		X
azavedo	no reimbursement	No
Baltrusaitis		No
Baño Gómez		Yes
Becker	Recommended by Kay-Uwe	No
Bona-Gallego		Yes
Broughton	Recommended by Richard Harris	No
Casagrande		?
Crocetti		No
Custodio		Yes
Dourado		?
Drass		Yes
Fink		Yes
Flaig		Yes
Fragiacomo	Recommended by Richard Harris	No
Gaspar		No
Gavric		Yes
gustafsson		No
Hädicke		Yes
harris		No
Harte	Link with FP1101	X
Hasan	Local	Yes
Jahreis		Yes
Jockwer		Yes
Kästner	Replacement for Prof Rautenstrauch	No
kliger		No
Kobel		Yes
Kolevski	Invited by K Gramatikov	Yes
Lartigau		Yes
malo		No
Melrose	Recommended by Richard Harris	No
Meizerova		No
Morgado		Yes
Müller		Yes
Rajcic	Local	No
Rautenstrauch	Declined	X
ren	no reimbursement	X
Reynolds		Yes
rodley-ellis		X
Rinaldini		Yes
Sartori		?
schober		No
Skinner		Yes
Stamatopoulos		Yes
stanton	no reimbursement	No
Subacius	Prof Antanas Baltrusaitis	Yes
Sustersic		Yes
Tomasi		No
vandekuijen	Probably not attending	No
Walker		Yes
Weber		Yes
Widmann	Recommended by Kay-Uwe	No
Xavier		Yes



Proceedings
Edited by Kay-Uwe Schober
Published by U of Bath



News from COST Office



- New claims procedure
- New enquiries procedure - please send your email to e-cost@cost.eu do not send to Cassia or other personal email
- New DC Rapporteur – Callum Hill (UK)

Participants



COST Grant System
17 October 2012



Action FP1004
Forests, their Products and Services

Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Austria	22/11/2011	Belgium	12/05/2011	Bulgaria	14/06/2011	Croatia	04/05/2011
Czech Republic	11/07/2011	Denmark	08/06/2011	Finland	25/01/2011	France	21/01/2011
Germany	20/01/2011	Greece	15/04/2011	Ireland	18/08/2011	Italy	20/01/2011
Lithuania	30/11/2011	Netherlands	25/02/2011	Norway	20/01/2011	Poland	20/01/2011
Portugal	04/03/2011	Slovenia	12/07/2011	Spain	14/02/2011	Sweden	17/06/2011
Switzerland	23/02/2011	The Former Yugoslav Republic of Macedonia	25/02/2011	Turkey	17/02/2011	United Kingdom	20/01/2011

Total: 24

Participating Institutions from non-COST countries	
Australia	University of Technology Sydney
Canada	University of British Columbia
New Zealand	University of Canterbury



Budget – 2011-12

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	€94 260.87
Grant Holder	€14 139.13
Budget	€108,400

Budget – 2011-12



		Actuals+Accruals	Total
(5)	Eligible costs till 2012-07-24	89,505.30 EUR	89,505.30 EUR
(6)	Outstanding balance / Carry-over Carry-over to next period	-10,234.64 EUR	-10,234.64 EUR
(7)	In favour of the Grant Holder		

Budget – 2011-12



FP7 Grant - Yearly Financial Report (YFR)

COST Action Number FP1004
 Period of reporting 2011-07-01 to 2012-07-24
 Grant Budget 108,400.00 EUR

Table 1 - Eligible costs	Contract Budget EUR a	Actuals EUR b	Accruals EUR c	Total eligible EUR d=b+c	Delta EUR g=d-a
A. Science Expenditure					
A1. Total Meetings (*)	62,600.00	62,037.71	0.00	62,037.71	-762.29
A2. Total STSMs (*)	12,000.00	12,700.00	0.00	12,700.00	700.00
A3. Total Training Schools (*)	16,200.00	0.00	0.00	0.00	-16,200.00
A4. Total Dissemination, publications (*)	3,000.00	3,092.99	0.00	3,092.99	92.99
A5. Total OERSA(**) (*)	260.87	0.00	0.00	0.00	-260.87
Total Science Expenditure (sum: A1 to A5)	94,260.87	77,830.70	0.00	77,830.70	-16,430.17
B. FSAC (Max. 15% of A) (***)	14,139.13	11,674.60	0.00	11,674.60	-2,464.53
C. Total Eligible Costs (= A+B)	108,400.00	89,505.30	0.00	89,505.30	18,894.69

Work Groups - Progress



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

Leader: Jan Willem VanDe Kuilen (DE) Deputy Leader: Roberto Tomasi (IT)

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

Leader: Roberto Crocetti (SE)

Deputy Leader: Kjell Arne Malo (NO)

Working Group 3: Modelling the mechanical performance of enhanced wood-based systems

Leader: Daniel Ridley-Ellis (UK)

Deputy Leader: Vanessa Baño Gómez (ES)

Budget 2012-13



Action	New GP Start	New GP End	Parties	New budget entitlement
FP1004	01/07/2012	30/06/2012	24	€156.200

Budget 2012-13



Grant period: 1 July 2012 – 30 June 2013
Allocated budget: €156,200

A. SUMMARY BUDGET

(1) MEETINGS	€ 92,600
(2) SHORT-TERM SCIENTIFIC MISSIONS	€ 17,500
(3) TRAINING SCHOOLS	€ 20,750
(4) PUBLICATIONS, DISSEMINATION, OUTREACH	€ 4,976
(5) OTHERS	€ 0
B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))	€ 135,826
C. Financial & Scientific Administration and Coordination (max. of 15% of B.)	€ 20,374
D. TOTAL EXPENDITURE (B+C)	€ 156,200

Budget Planning 2012-13

MEETINGS

Management Committee Meetings

Location: Wroclaw – to be confirmed

Date: 18-19 October 2012 – to be confirmed

Number of participants to be reimbursed: 50

Travel costs: €40,000

Organisational support: €1500

Working Group Meetings

WG no. WG1 – Bonded rods meeting

Location: To be confirmed

Date: **April 2013?**

Number of participants to be reimbursed: 7

Travel costs: €5,600

Organisational support: 0



Budget Planning 2012-13

MEETINGS

Other Meetings

Core group meeting 3

Location: To be confirmed

Date: Nov 2012

Number of participants to be reimbursed: 6

Travel costs: €4,800

Organisational support:

Core group meeting 4

Location: To be confirmed

Date: June 2013

Number of participants to be reimbursed: 5

Travel costs: €4,000



Budget Planning 2012-13



MEETINGS

Title: CLT Conference

Location: Graz -To be confirmed

Date: 11-12 April 2013

Number of participants to be reimbursed: 44

Travel costs: €35,200

Organisational support: €1500

Budget Planning 2012-13



(2) SHORT TERM SCIENTIFIC MISSIONS (STSMs)

Number: 7

Cost: €17,500

(3) TRAINING SCHOOLS

Location: Lund

Date: 12-14 December 2012

Number of Trainees to be reimbursed: 24

Trainees Grants: €14,400 (= 24 x €600)

Number of Trainers to be reimbursed: 7

Travel costs: €5,600 (= 7 x €800)

Organisational support: €750

(4) PUBLICATIONS, DISSEMINATION, OUTREACH, WEBSITE

Title: To be confirmed – CLT State of the Art Report?

Cost: €4976

Requested revision to Budget 2012-13



Grant period: 1 July 2012 – 30 June 2013
Allocated budget: €156,200

A. SUMMARY BUDGET

(1) MEETINGS	€ 92,600
(2) SHORT-TERM SCIENTIFIC MISSIONS	€ 17,500
(3) TRAINING SCHOOLS	€ 20,750
(4) PUBLICATIONS, DISSEMINATION, OUTREACH	€ 4,976
(5) OTHERS	€ 0
B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))	€ 135,826
C. Financial & Scientific Administration and Coordination (max. of 15% of B.)	€ 20,374
D. TOTAL EXPENDITURE (B+C)	€ 156,200

Budget Planning 2012-13



(2) SHORT TERM SCIENTIFIC MISSIONS (STSMs)

Number: 6

Cost: €15,000

(3) TRAINING SCHOOLS

Location: Lund

Date: 12-14 December 2012

Number of Trainees to be reimbursed: 24

Trainees Grants: €15,200 (= 20 x €600 + 4 x €800)

Number of Trainers to be reimbursed: 7

Travel costs: €5,600 (= 7 x €800)

Organisational support: €3000

(4) PUBLICATIONS, DISSEMINATION, OUTREACH, WEBSITE

Title: To be confirmed – CLT State of the Art Report?

Cost: €4476

Requested revision to Budget 2012-13



Grant period: 1 July 2012 – 30 June 2013
Allocated budget: €156,200

A. SUMMARY BUDGET

(1) MEETINGS	€ 92,600
(2) SHORT-TERM SCIENTIFIC MISSIONS	€ 15,000
(3) TRAINING SCHOOLS	€ 23,800
(4) PUBLICATIONS, DISSEMINATION, OUTREACH	€ 4,426
(5) OTHERS € 0	
B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))	€ 135,826
C. Financial & Scientific Administration and Coordination (max. of 15% of B.)	€ 20,374
D. TOTAL EXPENDITURE (B+C)	€ 156,200

STSM – Status, Applications



Financial year	STSM budget	Internal No.	Name	Registration No.	Start	End	From	To	Budget	remaining	Report
2011 - 2012	12,000 €	2011-01	Zhouyan, Xia	FP1004-9452	20/02/2012	20/04/2012	Germany	Italy	2,500 €	9,500 €	open
		2011-02	Skinner, Jonathan	FP1004-9613	27/02/2012	19/03/2012	UK	Portugal	1,800 €	7,700 €	ok
		2011-03	Bona Gallego, Edurne	FP1004-9843	01/03/2012	15/04/2012	Spain	Sweden	2,500 €	5,200 €	ok
		2011-04	Bona Gallego, Maria	FP1004-9842	01/03/2012	15/04/2012	Spain	Norway	2,500 €	2,700 €	ok
		2011-05	Bano, Vanessa	FP1004-10044	06/05/2012	29/05/2012	Spain	Switzerland	1,200 €	1,500 €	open
		2011-06	Sartori, Tiziano	FP1004-10200	23/04/2012	14/05/2012	Italy	Sweden	2,200 €	-700 €	open
2012 - 2013	12,000 €	2012-01	Jockwer, Robert	FP1004-10280	20/08/2012	12/10/2012	Switzerland	Sweden	2,500 €	9,500 €	open
		2012-02	Xavier, Jose	FP1004-10687	24/06/2012	01/07/2012	Portugal	Spain	850 €	8,650 €	open
		2012-03	1 more in progress							8,650 €	open
		2012-04								8,650 €	open
		2012-05								8,650 €	open
		2012-06								8,650 €	open
2013 - 2014	12,000 €	2013-01								12,000 €	open
		2013-02								12,000 €	open
		2013-03								12,000 €	open
		2013-04								12,000 €	open
		2013-05								12,000 €	open
		2013-06								12,000 €	open

RSTSMs

Igor Gavric - University of Canterbury, New Zealand supervision of Prof Geoff Chase. €4,000

Daniela Wrzesniak - University of Canterbury, New Zealand. Supervision Prof Geoff Chase. €3,000



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

FP1004 Training School
10-14 December 2012
Roberto Croceti



- Lund
- Topics and trainers agreed
- Applications closed 30 Sept
- Delegates selected on basis of 3 per country, with first applicants offered grant
- Successful applicants to be notified shortly

FP1004 Training School

10-14 December 2012



Lecture	Speaker
Engineered Timber Products	Robert Kliger, Chalmers, Göteborg
Connection techniques and calculation models	Jan-Willem van de Kuilen, Technical University, Munich
Stability and bracing	Roberto Crocetti, Lund University
Large-span timber structures	Richard Harris, Bath University
Composite structures	Kay-Uwe Schober, University of Applied Science, Mainz, Germany
Timber Bridges	Roberto Crocetti, Lund University
Buckling and second order effects	Kolbein Bell, NTNU
Dynamic of timber structures	Patricia Hamm, University of Applied Science, Biberach, Germany
Earthquake engineering applied to timber structures	Roberto Tomasi, Trento University
Fracture mechanics and failure models	Per Johan Gustafsson, Lund University
Forensic Timber Engineering	Eva Frühwald Hansson, Lund University
Strengthening techniques	Several COST members
Laboratory tests	



9. Publications, dissemination and outreach activities
10. Request for new members
11. Promotion of gender balance and of Early Stage Researchers (ESR)
12. Non-COST country participations
13. Web news
14. AOB
15. Close