

COST E55 – Modelling the Performance of Timber Structures

3rd Workshop and 5th MC Meeting

VTT Technical Research Centre

Espoo

Finland

13 – 14 March 2008

Program

Local Organiser:

Tomi TORATTI

VTT Technical Research Centre of Finland

PO Box 1000

02044 Vtt, Finland

March 13/14, 2008

Direct Phone: +358 20 722 4631

tomi.toratti@vtt.fi

Program (preliminary version, 06.03.2008)

Thursday, March 13th, 2008

08.30 Registration, collection of the COST reimbursement forms

09.00 Welcome Address and Introduction (Jochen Köhler, Tomi Toratti)

09.10 Session with technical presentations related to WG I, chaired by Tomi Toratti.

Tomi Toratti (Finland) (20 min)

Introduction, Failure assessment template, Failure Assessment Publication

Jochen Köhler (Switzerland) (20 min)

Evaluation of Experience (cont.)- a generic procedure for the assessment of failures and malfunctions

Kolbein Bell (Norway) (20 min)

Discussion on the analysis of failures

10.30 Coffee

10.45 Session with technical presentations related to WG I cont., chaired by Tomi Toratti.

Jørgen Munch-Andersen (Denmark) (20 min)

Snowload in Denmark

Robert Pawlowski (Germany) (20 min)

Monitoring of wide-span timber roof structures - development of a simple and robust monitoring system

11.40 Session with technical presentations related to WG II chaired by André Jorissen.

André Jorissen (The Netherlands) (10 min)

Introduction

Hans Joachim Blaß (Germany) (25 min)

Ductility Aspects for Joints

12.20 Lunch

March 13/14, 2008

13.20 Session with technical presentations related to WG II continued; chaired by André Jorissen.

Martin Häglund (Sweden) (Keynote 45 min)
On moisture induced stresses in timber structural elements

Alpo Ranta-Maunus (Finland) (20 min)
Moisture induced stresses in glulam components

Stefania Fortino et al. (Finland) (20 min)
A 3D moisture stress FEM analysis of timber structures

15.00 Coffee

15.15 Session with technical presentations related to WG III chaired by John Dalsgaard Sørensen.

John Dalsgaard Sørensen (Denmark) (20 min)
A Probabilistic Approach for Robustness Evaluation of Timber Structures

Poul Henning Kirkegaard (Denmark) (20 min)
A Probabilistic Approach for Robustness Evaluation of Timber Structures

Ludovic Fulop (Finland) (20 min)
Robustness evaluation of failed timber structures

Small Break (5 min)

Gerard Canisius (UK) (20 min)
The JCSS Expert Task Group and the Document on Robustness of Structures

Markus Sandomeer (Switzerland) (20 min)
Representing the spatial distribution of strength related timber material properties by means of hierarchical modelling

18.10 Closure

20.00 Dinner

March 13/14, 2008

Friday, March 14th , 2008

08.00 Coffee

08.15 Presentation of the results of COST E55 STSM, chaired by Annette Harte.

Jan Weckendorf (UK) (20 min)

A Comparison of Design, Construction and Dynamic Performance of Timber Floors in the UK and Finland (STSM at VTT, Finland)

Dennis Schoenmakers (The Netherlands) (20 min)

Analyses of the bearing behaviour of dowel-type fasteners by means of non-contact full-field optical deformation measurements (STSM at DTU, Denmark)

Session about technical presentations about general topics, chaired by Annette Harte.

Pedro Palma (Portugal) (10 min)

Timber carpentry connections: influence of geometry

Maurice Brunner (Switzerland) (10 min)

A flexible adhesive interface to increase the bending resistance of glulam

Thomas Bogensperger (Austria) (10 min)

A contribution to the characteristic shear strength of a CLT wall under shear

09.40 Introduction to the parallel sessions, focus and goals (Jochen Köhler)

09.50 Parallel discussion sessions of the WGs
Discussion of the follow up strategy of each WG

10.45 Coffee

11.15 Joint session, discussion of results conclusions and outlook

13.00 Closure of workshop / Lunch

14.00 5th MC meeting

15.30 End of the MC meeting

March 13/14, 2008

List of Participants

Name	Status	Country	Name	Status	Country
I. Reimbursed participants					
Bogensperger, Thomas	MC	AT	Casciati, Fabio	MC	IT
Brandner, Reinhard	WG	AT	Baltrusaitis, Antanas	MC	LT
Brunner, Maurice	MC	CH	Norvydas, Valdas	WG	LT
Köhler, Jochen	MC	CH	Pranckenviciene, Vilija	MC	LT
Müller, Andreas	WG	CH	Jorissen, André	MC	NL
Sandomeer, Markus	WG	CH	Leijten, Ad	WG	NL
Sigrist, Christophe	WG	CH	Schoenmakers, Dennis	WG	NL
Steiger, René	WG	CH	van de Kuilen, Jan-Willem	MC	NL
Blass, Hans Joachim	MC	DE	Rønnquist, Anders	WG	NO
Dietsch, Philipp	WG	DE	Bell, Kolbein	WG	NO
Frese, Matthias	WG	DE	Malo, Kjell Arne	MC	NO
Kreuzinger, Heinrich	MC	DE	Siem, Jan	WG	NO
Pawlowski, Robert	WG	DE	Branco, Jorge	MC	PT
Schänzlin, Jörg	WG	DE	Cruz, Helena	WG	PT
Kirkegaard, Poul Henning	WG	DK	Dias, Alfredo	MC	PT
Munch-Andersen, Jørgen	WG	DK	Jorge, Luís	WG	PT
Sørensen, John Dalsgaard	MC	DK	Palma, Pedro	WG	PT
Svensson, Staffan	MC	DK	Frühwald, Eva	WG	SE
Toratti, Tomi	MC	FI	Häglund, Martin	WG	SE
Chaplain, Myriam	WG	FR	Serrano, Erik	MC	SE
Bjelanovic, Adriana	WG	HR	Srpčić, Jelena	MC	SI
Čizmar, Dean	WG	HR	Turk, Goran	MC	SI
Rajčić, Vlatka	WG	HR	Weckendorf, Jan	WG	UK
Harte, Annette	MC	IE	Zhang, Ben	MC	UK
Rodd, Peter	WG	IE	Canisius, Gerard	WG	UK
II. Participants from the host institution					
Fortino, Stefania	WG	FI			
Fulop, Ludovic	WG	FI			
Mirianon, Florian	WG	FI			
Ranta-Maunus, Alpo	WG	FI			

March 13/14, 2008

Meeting place

The meetings will be held in the VTT main building in Otaniemi (street address) Vuorimiehentie 5 . See map below number 17.

Hotel

The recommended hotel is Hotel Radisson SAS Otaniemi. For reservations, since there are a number of pre-bookings done, please mention the code: cost E55 to get a better offer. This pre-booking is valid until 01 February 2008.

For reservations please contact the central sales service: tel +358 20 1234 700, fax: +358 20 1234 740 or e-mail: reservations.finland@RadissonSAS.com

Please mention the code: cost e55 when doing reservations for this hotel.

<http://www.radissonsas.com/cs/Satellite/Page/RadissonSAS/Page/rsasLocation/1053502951349/en/hotelCode--helzs/>

It is a walking distance to the meeting place (see map below on the right side)

If you are staying in Helsinki for a longer time or wish to have a more affordable hotel, you may book in any of the Helsinki Hotels and use a bus or taxi for coming to the meetings.

Transport from Helsinki or the airport to Otaniemi

Otaniemi is easily accessible by the most popular forms of public transport. To Dipoli from centre of Helsinki it takes only 15 minutes by taxi and Helsinki Airport is half an hour away (about 30 euros).

Bus connections:

Otaniemi is well served by the public transport. From Helsinki-Vantaa Airport take bus number [615](#) to Helsinki Railway station (Elielinaukio platform 10), then take bus number [194](#) or [195](#) to Otaniemi.

The following buses take you also to Otaniemi :

- from Helsinki (Kamppi), numbers [102](#), [103](#) ([platforms 41 and 42](#))
- from Helsinki (Elielinaukio), numbers [194](#), [195](#) ([platform 25](#))
- from elsewhere in Helsinki, numbers [505](#), [506](#), [512A](#), [550](#)
- from elsewhere in Espoo, numbers [2, 4, 10, 15, 52](#) within Espoo) or numbers [103](#), [194](#), [195](#) (going to Helsinki)
- from Vantaa, number [510](#)

March 13/14, 2008

For local bus connection planning, see <http://www.ytv.fi/eng>



