INTER
INTERNATIONAL NETWORK ON TIMBER ENGINEERING RESEARCH

Tacoma WA, USA
25 August – 29 August 2019

Venue:

Hotel Murano, 1320 Broadway
Tacoma, Washington 98402

Sunday, 25 August
Welcome gathering at Tacoma Art Museum 18:00 - 20:00

Monday 26 August
Registration and Opening 08:30 - 09:00
Technical sessions:
Lunch 12:00 - 13:00
Technical sessions 13:00 - 17:00

Reception at Hotel Murano (outdoor if permitted by weather) 18:30 - 21:00

Tuesday 27 August
Technical sessions 09:00 - 12:00
Lunch 12:00 - 13:00
Technical sessions 13:00 - 17:00

Wednesday 28 August
Excursion 09:00 - 22:00

Buses pick up at Hotel Murano 08:30
Tacoma Dome 09:00 – 09:50
LeMay Car Museum 10:00 – 10:50
APA 11:15 – 12:00

Lunch at APA 12:00 - 12:45

Buses leaves from APA 13:00 and arrive at Seattle 13:50
Seattle Bullitt Center 14:00 – 14:50
Space Needle 15:00 – 16:00
Pike Place Market and free time 16:15 – 17:45

Dinner Cruise Elliott Bay Sunset Private Charter 18:00 - 21:00
Bus leaves form Seattle waterfront and return to Hotel Murano 21:10 - 22:00

Thursday 29 August
Technical sessions 09:00 - 12:00
Lunch 12:00 - 13:00
Technical sessions 13:00 - 15:00
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A G E N D A

1 CHAIRMAN'S INTRODUCTION

2 INFORMATION FROM OTHER ORGANISATIONS

3 TIMBER JOINTS AND FASTENERS

52 - 7 - 1 Product Characteristics of Self-Tapping Timber Screws - A Ringhofer, G Schickhofer

52 - 7 - 2 Withdrawal Strength of Screws and Screw Groups in European Beech (Fagus s.) Parallel to the Grain - M Westermayr, J W G. van de Kuilen

52 - 7 - 3 Density Variations in Beech LVL - Influence on Insertion Moment and Withdrawal Capacity of Screws - M Frese

52 - 7 - 4 Steel Dowel Connections in Beech Hardwood - S Franke, B Franke

52 - 7 - 5 Effective Thickness of the Wood Member in Timber-to-steel Connections with Large Diameter under Brittle Failure - M Yurrita, J M Cabrero

52 - 7 - 6 Row Shear and Block Shear Failure of Connections with Axially Loaded Screws - H J Blass, M Flaig, N Meyer

52 - 7 - 7 New Analytical Model for Brittle Failure in the Parallel-to-grain Direction of Timber Connections with Large Diameter Fasteners - M Yurrita, J M Cabrero

52 - 7 - 8 Embedment Test Analysis and Data in the Context of Phenomenological Modeling for Dowelled Timber Joint Design - M Schweigler, T K Bader, J-F Bocquet, R Lemaître, C Sandhaas

52 - 7 - 9 Beam-on-Foundation Modelling as an Alternative Design Method for timber Joints with Dowel-Type Fasteners – Part 2: Modelling Techniques for Multiple Fastener Joint or Connection - R Lemaître, J-F Bocquet, M Schweigler, T K Bader
Transmission of Perpendicular to Grain Forces Using Self-tapping Screws - P Dietsch, S Rodemeier, H J Blaß

Component Method in Timber Construction – Experimental and Numerical Research - U Kuhlmann, J Gauß

**4 DURATION OF LOAD**

Duration of Load Effect on Axially-Loaded Self-Tapping Screws Inserted Parallel to Grain in Soft- and Hardwood - R Brandner, A Ringhofer, R Sieder

**5 LAMINATED MEMBERS**

Compressive Strength and Buckling Resistance of GLT Columns Made of European Beech - T Ehrhart, R Steiger, P Palma, E Gehri, A Frangi

Cross Laminated Timber at In-Plane Shear Loading – Comparison of Model Predictions - H Danielsson, E Serrano

Net-section Tension and Shear Strength of In-plane Loaded CLT Panels - T Tannert, C Loss, M Popovski, H Mpidi Bita

Prediction of Load-Bearing Capacity of Notched Cross Laminated Timber Plates - E Serrano, P J Gustafsson, H Danielsson

Compressive Strength and Stiffness of End Grain Contact Joints in Softwood Glulam and CLT - M Flaig, T Schmidt, H J Blaß

From Testing to Codification: Post-Tensioned Cross Laminated Timber Rocking Walls - S Pei, J D Dolan, R Zimmerman, E McDonnel, P Line, M Popovski

**6 STRUCTURAL STABILITY**

Seismic Performance of End Brace Connections in Ductile Braced Timber Frame - H Daneshvar, J Niederwestberg, C Dickof, J Spencer, J-P Letarte, Y H Chui

Lateral Resistance and Deflection of CLT Shear Walls - Md Shahnewaz, M Popovski, T Tannert

Development of Timber Buckling-Restrained Braces for Mass Timber Braced Frames - C Murphy, C P Pantelides H-E Blomgren, D R Rammer
7 FIRE

52 - 16 - 1 Preliminary Design Model for Wooden I-Joists in Fire - K N Mäger, A Just
52 - 16 - 2 Code Calibration for Timber in Fire – On the Use of 20% Fractiles for the Strength - R Fahrni, G De Sanctis, A Frangi

8 GLUED JOINTS

52 - 18 - 1 Investigations Concerning Screw-Press Gluing of Assemblies with CLT - K Bratulic, M Augustin, G Schickhofer

9 ROBUSTNESS

52 - 22 - 1 Catenary Action for Cross-laminated Timber Floor Systems - H Mpidi Bita, T Tannert
52 - 22 - 2 Addressing robustness in the 2nd-generation EN 1995-1-1 Eurocode 5 - P Palma, R Steiger, R Jockwer
52 - 22 - 3 Robustness in Tall Timber Buildings - An Improved Framework - K Voulpiotis, J Köhler, R Jockwer, A Frangi

10 NOTES

11 ANY OTHER BUSINESS

12 VENUE AND PROGRAMME FOR NEXT MEETING

13 CLOSE