

INTER

INTERNATIONAL NETWORK ON TIMBER ENGINEERING RESEARCH

Biel/Bienne, Switzerland
20 August – 24 August 2023

Venue:

Bern University of Applied Sciences BFH
Solithurnstrasse 102
Biel/Bienne,
Switzerland

Sunday, 20 August

Welcome reception, Le Strämpu, Lake front, Uferweg 40, 2560 Nidau 17:00 - 19:30

Monday 21 August

Registration and Opening 08:30 - 09:00

Technical sessions: 09:00 - 12:00

Lunch 12:00 - 13:00

Technical sessions 13:00 - 17:00

Tuesday 22 August

Technical sessions 09:00 - 12:00

Lunch 12:00 - 13:00

Technical sessions 13:00 - 17:00

Technical visit and Apéro, Omega Museum and Planet Swatch Museum,
Nicolas G. Hayek Strasse 2, Biel/Bienne 18.00 - 21:00

Wednesday 23 August

Technical Tour 07:30

Light lunch and coffee breaks will be included during the day

Departure Main Train Station Biel/Bienne, return directly to Meeting dinner

Apéro and Meeting dinner, Swiss Olympic House, Magglingen 18:00

Return by Funi Train to Main train station Biel/Bienne 22:27 / 22:57

Thursday 24 August

Technical sessions 09:00 - 12:00

Lunch 12:00 - 13:00

Technical sessions 13:00 - 15:00

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AGENDA

1 CHAIRMAN'S INTRODUCTION

2 INFORMATION FROM OTHER ORGANISATIONS

3 INTER/CIB POLICY AND MEETINGS

56 - 105 - 1 50 Years INTER/CIB-W18 - H Blass

4 TIMBER COLUMNS

56 - 2 - 1 Comparison of CLT Buckling Strength Criteria with Experimental Results - A Narcy, D T Pham, G Forêt, A Lebéé

5 STRESSES FOR SOLID TIMBER

56 - 6 - 1 Material Properties of Medium and Dense (Tropical) Hardwoods: Compression Perpendicular to the Grain - G Ravenshorst, A Kovriga, J-W van de Kuilen

6 TIMBER JOINTS AND FASTENERS

56 - 7 - 1 Withdrawal Properties of Self-Tapping Screws - C Sandhaas, H Blass

56 - 7 - 2 Low-cycle Fatigue of Self-Tapping Screws - S Schwendner, D Kattenbach, W Seim

56 - 7 - 3 Overstrength of CLT-to-CLT Connections with Inclined Screws - A Aloisio, D P Pasca, Y De Santis, R Tomasi, M Fragiaco

56 - 7 - 4 Capacity Model of Inclined Screw Connections with Interlayer - Y De Santis, A Aloisio, I Gavrić, I Šušteršič, M Fragiaco

56 - 7 - 5 Design of Adhesively Bonded Timber Concrete Composites: Bondline Properties - P Grönquist, K Müller, S Mönch, A Frangi

56 - 7 - 6 Post-Tensioned Glulam Beams - Experimental Investigations of Bonded and Unbonded Systems - **M Muster, T Ehrhart, M Althaus, H-U Küng, P Rogenmoser, K Rahner, A Gnägi, A Frangi**

7 DURATION OF LOAD

56 - 9 - 1 Reliability-Based Investigation on the Duration of Load Effect in Timber Structures Under Wind Loads - **X Zheng, C Zhang, F Lam**

8 LAMINATED MEMBERS

56 - 12 - 1 A Design Model for Out of Plane Bending of CLT with Consideration of Properties of Lamellas and Finger Joints - **A Olsson, T K Bader**

56 - 12 - 2 Bending Properties out-of-Plane of Cross Laminated Timber (CLT): Test Experience, Model Refinement and Validation - **R Brandner, A Ringhofer, R Sieder**

56 - 12 - 3 Punching-shear Strength of Point-Supported CLT Floor Panels - **H Ganjali, T Tannert, Md Shahnewaz, C Dickof, C Slotboom, M Popovski**

56 - 12 - 4 Elevated Shear Stresses at Corners of Rectangular Holes: a New Design Proposal - **S Aicher, S Siby, C Tapia-Camu**

56 - 12 - 5 Improvement of Design Rules in EC5 for Tapered Beams - A Matter of Mechanical Consistency and Competitiveness - **G Hochreiner, M Detter, J Füssl**

56 - 12 - 6 Lateral Torsional Buckling of Glulam Beams - **J Töpler, U Kuhlmann**

56 - 12 - 7 Dynamic Strength Increase of Glued Laminated Timber Beams Subjected to Impact Loading - **A S Cao, A Frangi**

9 STRUCTURAL STABILITY

56 - 15 - 1 Design Implications for CLT Shearwalls with Openings - **D Casagrande, G Doudak, R Fanti, A Polastri**

56 - 15 - 2 A new method for designing multi-storey segmented CLT walls - **A Smith, S Edvardsen, A Lawrence, R Tomasi**

56 - 15 - 3 Cyclic performance of balloon-type CLT shear walls with high-capacity hold-downs - **K Krauss, B Moerman, T Wright, F Lam, M Li**

56 - 15 - 4 Enhanced Seismic Performance of Resilient Timber Wall Structures with Innovative Low Damage Floor Connections - **S Assadi, A Hashemi, P Quenneville**

10 FIRE

56 - 16 - 1 Eurocode 5 Revision – Fire Design of Timber Structures - **A Frangi, A Just, J Hakkarainen, J Schmid, N Werther**

56 - 16 - 2 Clay and Lime Plaster as Fire Protection for Timber Structures - **J Liblik, A Just**

11 TEST METHODS

56 - 21 - 1 Evaluation of Test Methods for CLT Shear Stiffness at Out-of-plane Loading - **E Serrano, H Danielsson**

12 ROBUSTNESS

56 - 22 - 1 Experimental and Numerical Analyses of Full-Span Floors and Component Level Subassemblies for Robust Design of CLT Floors - **A Przystup, T Reynolds, T Tannert**

13 STRUCTURAL DESIGN CODES

56 - 102 - 1 Finite Element Based Design of Timber Structures - **J Töpler, M Schweigler, R Lemaitre, P Palma, M Schenk, P Grönquist, C Tapia, G Hochreiner, U Kuhlmann**

14 NOTES

15 ANY OTHER BUSINESS

16 VENUE AND PROGRAMME FOR NEXT MEETING

17 CLOSE