We invite you to participate in the Forum Wood Building Baltic 2024 to be held in Tallinn, Estonia on 26.02. – 28.02.2024.

Venue: Culture HUB,
Address: Kursi 3, 10415 Tallinn

Forum Wood Building Baltic is the main conference for architecture and engineering topics of wooden buildings: design for manufacturing and assembly, building physics, energy performance, fire safety etc. in the countries around Baltic Sea.

The conference is a part of the international organization **Forum Holzbau**.

The overarching theme of Forum Wood Building Baltic 2024 is **integrated design** where different disciplines come together with their own possibilities and limitations to cooperate and push the boundaries of innovation in timber construction.

Scope of the conference
— Regenerative and circular architecture
— (Prefabricated) timber-based renovation solutions
— Process innovation in design and construction of wooden buildings
— Timber structures (Eurocode 5)
— Fire safety in timber buildings
— Building physics of timber structures
—Zero emission wooden buildings (LCC, LCA)

Preconference tours (26.02.2024)
— Prefabricated renovation and construction, site visits
— Architecture museum, site visits

Registration

Registration will be done through FIENTA
https://fienta.com/forum-wood-building-baltic-2024

	Standard fee from 20 January 2024
Regular participant	450€
1-day ticket	225€
Excursion (26.02)	20€

* Please note that VAT 20% is included in the registration fee.

PROGRAMME

Monday 26.02.2024
13.00–18.00 Pre-conference tour - Excursion

Tuesday 27.02.2024
08.30–09.00 Registration and Opening Indoor Exhibition

09.00–18.00 Sessions
19.00–22.00 Conference Dinner

Wednesday 28.02.2024
09.00–16.00 Sessions

More information:
https://www.forum-woodbaltic.com/
fwbb2024@taltech.ee

ORGANIZERS:

Tallinn University of Technology
Estonian Academy of Arts
TAL TECH EKA

Forum Holzbau
FORUM HOLZBAU

EESTI EHITUSINSENERIDE LIIT
Estonian Association of Civil Engineers

Eesti Puitmajaliit
Estonian Woodhouse Association

FORUM WOOD BUILDING BALTIC 2024

26.02.–28.02.2024,
Tallinn, ESTONIA

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FORUM WOOD BUILDING BALTIC

FORUM WOOD BUILDING BALTIC 2024 PROGRAM

Monday, 26.02.2024		
13:00–18:00	Pre-conference tours	
Tuesday, 27.02.2024		
8:30–9:00	Registration. Tea & coffee break. Exhibition	
9:00 – 9:15	**Welcome**	
9:30 10:35	**Keynote session**	
9:30 – 10:35	**Role of New European Bauhaus in transformation of timber architecture for sustainable future** Anna Sandak, InnoRenew (SLO)	
9:55 – 10:35	**Future challenges for timber structures** Andrea Frangi, ETH Zürich (CH)	
10:35–11:00	Tea & coffee break. Exhibition	
11:00–12:30 Parallel sessions	**Eurocode 5 – 2nd generation**	**Design for manufacture and assembly**
11:00 – 11:30	**Design of cross-laminated timber** Philipp Dietsch, Karlsruhe Institute of Technology (GER)	**The future of timber construction facing the challenges of Industry 4.0** Heinz Köster, FORUM HOLZBAU (GER)
11:30 – 12:00	**Design for servicea-bility limit state** Tomi Toratti, Federation of the Finnish Wood-working Industries (FIN)	**Platform-DfMA timber designs for Resi and Office concept buildings** Sebastian Maetschl, Stora Enso (GER)
12:00 – 12:30	**Execution standard** Andrew Lawrence, ARUP (UK)	**ELEMENTerial – exploring architectural potential of CLT fabrication residues** Siim Tuksam, Estonian Academy of Arts (EE)
12:30-13:30	Lunch & exhibition	
13:30-15:00 Parallel sessions	**Timber-based renovation solutions**	**Eurocode 5 – 2nd generation**
13:30 – 14:00	**Circular renovation of an apartment building** Eero Nigumann, Timbeco Woodhouse OÜ (EE)	**Design of connections** Robert Jockwer, Chalmers University of Technology (SWE)
14:00 – 14:30	**Development of pre-fabricated insulation element for reno-vation of high-rise apartment buildings** Peep Pihelo, TalTech (EE)	**Design of timber bridges** Matthias Gerold, Harrer Ingenieure GmbH (GER)
14:30 – 15:00	**Case studies of moisture safety implementations on timber structures** Eneli Liisma, Merko (EE)	**Fire design** Alar Just, TalTech (Estonia)
15:00 — 15:20 Short presentations (a' 3 min + discussion during tea & coffee break)	**Commissioning the Design and Construction of Prefabricated Renovation** Alari Jürgenson, TalTech (EE) **Misused timber in renovation** Üllar Alev, TalTech (Estonia) **Moisture safety strategies for roof renovation with prefabricated additional insulation elements** Georg-Mihkel Kodi, TalTech (EE) **A novel approach to quantify crack formation in CLT.** Kristo Kalbe, TalTech (EE)	**Bending and vibration behaviour of CLT-steel composite beams** Noah Böhm, Techn. Hochschule Mittelhessen (GER) **Airtightness and moisture behaviour of joints and VOC concentrations in wood and hybrid structures** Anti Rohumaa, XAMK (FIN) **An Analysis of Wooden Traditional House in Nepal** Bharat Raj Pahari, Inst. of Engineering (NP) **Timber Reciprocal Frame Structures** Kertu Johanna Jõeste, Estonian Academy of Arts (EE)
15:20-16:00	Tea & coffee break. Poster discussion. Exhibition	
16:00-18:00 Parallel sessions	**Regenerative and circular architecture**	**Life-Cycle-Costing in wood construction**
16:00 – 16:30	**An open source circular modular construction system** Renee Puusepp, Estonian Academy of Arts (EE)	**Modelling the decay risk of exterior wood from detailed 3D geometries** Jonas Niklewski, Lund University (Sweden)
16:30 – 17:00	**Long-term carbon sequestration and reduction by circular design with wood** Harald Schwarzschachner, Stora Enso (GER)	**Bioinspired living coating system for regenerative and circular architecture** Anna Sandak, InnoRenew CoE (Slovenia)
17:00 – 17:30	**Prefab light clay-timber elements for net zero whole life carbon buildings** Juha Päätalo, Päätalo Architects Ltd (FIN)	**Tool development for LCC of wooden building envelope** Roja Modaresi, Norwegian Institute of Wood Technology (Norway)
17:30 – 18:00	**Fabrication reconsidered: Root chair; robotic milling technology** Hugo Fekar, Academy of Arts (Czech Republic)	**Design, and Const-ruction on the Service Life and Appearance of a Wooden Building** Villu Kukk, Tallinn University of Technology (Estonia)
19:00–22:00	**Conference Dinner** Culture Hub Kursi 3, 10415 Tallinn	

Wednesday, February 28th		
9:00–9:30	Registration. Tea & coffee break. Exhibition	
9:30 – 11:00	**Moisture safety**	**Timber Structures**
9:30 – 10:00	**Moisture sorption properties of Laminated Veneer Lumber** Lars Gullbrekken, SINTEF (NOR)	**Reconnect Ukraine – research project on timber connections** Andrii Bidakov, O.M. Beketov National University of Urban Economy in Kharkiv (UKR)
10:00 – 10:30	**The future of wooden structures in combination with bio-based insulation** Anke Blommaert, Ghent University (BE)	**Assessment of strength and stiffness properties of aged structural timber** Maarja Kauniste, TalTech (EE)
10:30 – 11:00	**The effect of controlled roof ventilation on the moisture safety of roofs** Klaus Viljanen, AaltoU(FIN)	**Onsite application of end-grain bonded timber under low curing temperatures** Dio Lins, Bern University of Applied Sciences (CH)
11:00–11:30	Tea & coffee break. Poster discussion. Exhibition	
11:30–13:00 Parallel sessions	**Process innovation**	**Historic wooden buildings**
11:30 – 12:00	**Planning sustainability for timber construction projects using the example of the Student residential quarter "Campus RO"** Lore Köster, Campus RO, Rosenheim (GER)	**Technical state, renovation need, and performance of renovation solutions of Estonian wooden log houses** Alois Andreas Põdra, Est. Open Air Museum (EE)
12:00 – 12:30	**Multi-criteria decision process for selection of biobased facade materials** Veronika Kotradyová, Slovak University of Technology in Bratislava (SK)	**Low carbon emission renovation of historic residential buildings** Kadri-Ann Kertsmik,TalTech (EE)
12:30 – 13:30	**SOFTacademy – development of pre-fabricated renovation to turn a district into a cosy living environment** Mariliis Niinemägi, Tallinn EE	**Assessment of the Potential of Reconstruction of Historic Buildings** Helena Rummo, Estonian Academy of Arts (EE)
13:00-14:00	Lunch & exhibition. Poster discussion.	
14:00-15:30	**Keynote session**	
14:00 – 14:30	**Designing material genealogies: the case of wood** Aris Kafantaris, Kengo Kuma and Associates (JPN)	
14:30 – 15:00	**Benefits and challenges of digitalisation the renovation process** Ergo Pikas, TalTech (EE)	
15:00 – 15:30	**Automated design and distributed factory based timber housing** Gilles Retsin, AUAR (UK)	
15:30-16:00	**Closing Session**	