

FORUM WOOD BUILDING INTERNATIONAL

27th International Wood Construction Conference (IHF)

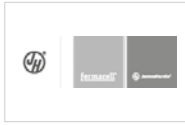
29th of November – 1st of December 2023

Innsbruck, Congress Center

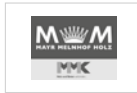
Practical experience – Practical application

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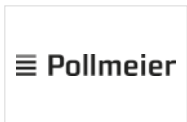
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**27th International Wood Construction
Conference (IHF)
29 November – 1st December 2023
Innsbruck, Congress Centrum**

Practical experience – Practical application

The International Wood Construction Conference (IHF2023) provides architects, engineers and builders with an opportunity to report on experiences, processes and goals related to wood structures and construction. At the same time, the conference provides an opportunity for architects, building officials, builders, craftspeople, practitioners and educators to learn about the latest developments and to exchange experiences.

Simultaneous translation

The presentations will be held in German or English and will be translated simultaneously.

Wednesday, November 29 2023

OPENING EVENT

Timber construction for the demanding real estate and housing industry

Moderation: Sandra Burlet, Lignum – Holzwirtschaft Schweiz, Zurich (SUI)

The general climate policy situation is causing a change in the values of investors in both the EU and Switzerland: with a view to the sales value of new projects and the value retention of existing portfolios, sustainability will increase from a soft factor to a hard criterion. Surveys of residential and office buildings in Switzerland show that timber construction is not only ecologically superior to solid construction, but can also keep up economically.

- 08.15** Reception of attendees
Coffee sponsored by Dynea
- 08.55** Welcome
Sandra Burlet, Lignum – Holzwirtschaft Schweiz, Zurich (SUI)
- 09.00** Building climate-friendly and affordable – A comparison between Switzerland, Germany, Austria and France
Dr. Julia Selberherr, Wüest Partner, Zurich (SUI)
- 09.30** CO₂ potentials and decision bases in early construction phases
Hanns-Jochen Weyland, Störmer Murphy and Partners, Hamburg (GER)
- 10.00** Low-tech and circular timber construction and its ecological consequences
Prof. Eike Roswag-Klinge, Natural Building Lab, Technische Universität Berlin, Berlin (GER)
- 10.30** Coffee break
Coffee sponsored by Dynea
- 11.00** Sustainable planning and building – only together
Caroline Palfy, LOUD 4 PLANET, Vienna (AUT)
- 11.30** New ways of collaboration – from project development to implementation
*Stefan Höher, Bauwens, Cologne (GER)
Johannes Lederbauer, Wiehag, Altheim (AUT)*
- 12.00** Serial-modular-affordable – How we can master the challenges in housing construction
Robert Decker, Robert Decker Immobilien, Dorfen (GER)
- 12.30** Discussion
- 12.45** – **13.50** Lunch break – *Coffee sponsored by Dynea*

Wednesday, November 29 2023

Pre-conference seminar I

Architecture

Organized by the Technical University Munich (GER) in collaboration with «aut. architektur und tirol», Innsbruck (AUT)

Architectural quality and sustainability

Moderation: Prof. Hermann Kaufmann, HK Architekten, Schwarzach (AUT)

Architectural quality is a crucial criterion that determines the longevity and thus the sustainability of a building. Unfortunately, those responsible for a project are increasingly tending to lose sight of this criterion – a fatal development. What good architecture can achieve is again the main theme of this prologue.

- 13.15 Reception of attendees
- 13.45 Welcome
Prof. Hermann Kaufmann, HK Architekten, Schwarzach (AUT)
- 14.00 LCA in housing construction – Holzbauquartier Berlin
Elise Pischetsrieder, weberbrunner architekten, Berlin (GER)
- 14.50 Space – Time – Expression
Timber construction through the ages
Prof. Astrid Staufer, Staufer & Hasler Architekten, Frauenfeld (SUI)
- 15.45 Coffee break in the exhibition area
Coffee sponsored by Stora Enso Wood Products
- 16.15 Changing our footprint
Wiebke Ahues, Henning Larsen Architekten, Berlin (GER)
- 17.00 Public construction with wood
Liza Heilmeyer, Birk Heilmeyer und Frenzel Architekten, Stuttgart (GER)
- 17.40 Grow your own buildings
Dr. Martina Bauer, Barkow Leibinger Architekten, Berlin (GER)
- 18.20 Discussion

Pre-conference seminar II

*with live transmission to the Freiburg room on the 3rd floor

Prefabricated housing

Organized by the European Society for Prefabricated Housing, Bad Honnef (GER)

European legislation and its impact on national companies and their products – finding your way around, understanding, navigating, implementing

Moderation: Georg Lange, European Society for Prefabricated Housing, Bad Honnef (GER)

Taxonomy, ESG criteria, sustainability reporting, product regulation, EPBD – the list of initiatives, directives and standards at European level is long and complex. It is a time in which it seems impossible for companies to find their way. This prologue is aimed at manufacturers of building products and buildings. We start with the EU's motivations and end with a practical comparison of buildings.

- 13.15 Reception of attendees
- 13.45 Welcome
Markus Baukmeier, European Society for Prefabricated Housing, Bad Honnef (GER)
- 14.00 Transformation of the construction industry – the EU as a pacesetter
Philippe Moseley, Policy Officer at European Commission, DG GROW Construction Unit, Brüssel (BEL)

- 14.30 The EU taxonomy: the key to a low-emission and resource-saving construction industry – companies between risk and opportunity
Jan Kertscher, Associate Director (ARUP Deutschland) und Leiter für das Property Business und das Advisory Services Team
- 15.00 Sustainability reporting – what do I have to do as a company with 30 - 1000 employees?
Christian Garke, CFO, Oikos Group, Schlüchtern (GER)
- 15.30 Discussion
- 15.45 Coffee break in the exhibition area
Coffee sponsored by Holzwerke Pfarrkirchen
- 16.15 Energy Performance of Buildings Directive (EPBD) – Silver bullet for the building transition?
Sabine Kamill, Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie, Vienna (AUT)
- 16.45 Future housing construction – requirements for construction products and buildings
Prof. Dr. Thomas Lützkendorf, Karlsruhe Institute of Technology, Karlsruhe (GER)
- 17.15 Construction methods, calculation rules and verification options for climate-friendly buildings
Frederic Dorff, Bundesverband Deutscher Fertigbau e. V., Bad Honnef (GER)
- 17.45 Discussion

Pre-conference seminar III

Wooden house construction

Organized by Timber Construction Europe, Berlin (GER)

Building in existing stock – potential for the timber construction industry

Moderation: Stefan Leitner, Holzbau Austria, Vienna (AUT)

In the current social transformation, the focus within the timber construction industry is also shifting. Building in existing stock with all its facets, from the renovation of old buildings to urban densification, is increasingly becoming a key market for climate protection and the population looking for housing. Last but not least, climate-friendly living space through inventory optimization and expansion offers new potential for the timber construction industry. Challenges and opportunities must be weighed up equally.

- 13.15 Reception of attendees
- 13.45 Welcome
Peter Aicher, Präsident Timber Construction Europe, Berlin (GER)
- 14.00 Addition instead of demolition – a contribution to climate protection
Prof. Dr. Annette Hafner, Technische Universität Bochum, Bochum (GER)
- 14.35 Building without land
David Häring, Häring, Eiken (SUI)
- 15.10 Serial renovation – a field report
Alexander Gump, Gump & Maier, Binswangen (GER)
- 15.45 Coffee break in the exhibition area
Coffee sponsored by Stora Enso Wood Products
- 16.15 Tradition and modernity combined
Wolfram Kübler, WaltGalmarini, Zurich (SUI)

- 16.50 Re-Use – a rediscovery in timber construction
Dr. Martin Weigl-Kuska, Holzforschung Austria, Vienna (AUT)
- 17.25 Circular building with existing stock
Melanie Karbasch, Architekturbüro Melanie Karbasch, Salzburg (AUT)
- 18.00 Discussion

Pre-conference seminar IV

Connection technology

Organized by Aalto Universität Helsinki (FIN)

Current developments in connection technology

Moderation: Prof. Dr. Gerhard Fink, Aalto University, Helsinki (FIN)

Timber engineering has developed rapidly in recent decades.

Wide-span halls and multi-storey residential and office buildings made of wood are now widespread. High-quality and reliable connections are the basic requirement for these developments.

New and at the same time more demanding areas of application of the material wood require continuous further development in the field of connection technology as well as the integration of new knowledge into standardization. This year's prologue on connection technology deals with two topics: dismantling and assessment of connections as well as hybrid components, whereby the latter are also considered with regard to their dismantling and sustainability.

- 13.15 Reception of attendees
- 13.45 Welcome
Prof. Dr. Gerhard Fink, Aalto Universität, Helsinki (FIN)
- 14.00 Removable connections for timber engineering
Dr. Lisa Ottenhaus, The University of Queensland, Brisbane (AUS)
- 14.35 Point-supported cross laminated timber floors
Prof. Dr. Thomas Tannert, University of Northern British Columbia, Prince George (CAN)
- 15.10 Not perfect, but resilient – load-carrying capacity of nailed connections in existing buildings
Prof. Dr. Werner Seim, Universität Kassel, Kassel (GER)
- 15.45 Coffee break in the exhibition area
Coffee sponsored by Stora Enso Wood Products
- 16.15 Timber-concrete composite floors with a high degree of prefabrication in the project BOBK7 in Berlin
Henning Ernst, SWG-Engineering, Rülzheim (GER)
- 16.50 Circular fasteners for hybrid construction
Sascha Schaaf, Marvin Vollbracht, Peikko Germany, Waldeck (GER)
- 17.25 Timber-concrete composite floors – research and development at the ETH
Prof. Dr. Andrea Frangi, Eidgenössische Technische Hochschule, Zurich (SUI)
- 18.00 Discussion

Pre-conference seminar V

Wood and politics

Organized by Ministry of Agriculture and Forestry, Regions and Water Management, Vienna (AUT)

Wood Governance across Europe and beyond – woodPoP

Moderation: Alexander Buck, International Union of Forest Research Organizations (IUFRO) and Veronika Juch, Austrian Ministry of Agriculture, Forestry, Regions and Water Management

A growing number of countries and communities in Europe, as well as in other parts of the world, are seeking a sustainable use of wood and other renewable materials by fostering a forest-based bioeconomy. How can governance accelerate progress? Which enabling measures are needed to accompany a transition to a carbon-neutral bioeconomy?

- 13.15 Reception of attendees
- 13.45 Opening
Georg Rappold, Ministry of Agriculture, Forestry, Regions and Water Management, Vienna (AUT)
- 13.50 Setting the Scene: The economic impact of forestry and wood industry in Europe
Anna Kleissner, EconMove
- 14.20 The European Wood Policy Platform (woodPoP)
Governance: Lisa Lehner, Ministry of Agriculture, Forestry, Regions and Water Management, Austria
Building: Petri Heino, Ministry of the Environment, Finland
Innovation and Research: Alfred Kammerhofer, Federal Office for Environment, Switzerland
Education and Vocational Training: Andreja Kutnar, Director, Innorenew COE, Slovenia
Communication and Information: Tomáš Krejzar, Director-General Wood Industry, Ministry of Economy, Tourism and Sport, Czech Republic
- 15.00 Round Table: Wood First: Best practice examples of initiatives fostering the sustainable use of wood
Dirk Alfter, Head of Division, Federal Ministry of Food and Agriculture, Germany
Graham Hilton, Trade and Investment Specialist – Europe, British Columbia Ministry of Jobs, Economic Development and Innovation
Takahiro Tsuchimoto, Chief timber research engineer, Tsukuba Building Research Institute, Japan
- 15.45 Coffee break in the exhibition area
Coffee sponsored by Stora Enso Wood Products
- 16.15 Towards a Global Wood Policy Platform: Sustainable Wood for a Carbon-neutral Bioeconomy
Janice Burns, International Union of Forest Research Organizations (IUFRO) and Thais Linhares-Juvenal, Food and Agriculture Organization (FAO)
Kwame Asamoak Adam, CEO Ghana Timber Millers Organization
- 16.45 Round Table: Transitioning towards a wood-based bioeconomy
João Lé, Member of the High Level Group on Forestry and Biomaterial
Silvia Melegari, Secretary General, CEI-Bois
Uwe Kies, Secretary General, InnovaWood
Florian Kamleitner, Project leader, Bioeconomy Austria
- 17.45 End
- onwards Aperitif in the exhibition hall
- 18.30 Sponsored by Lignopan Holzwerk Pfarrrkirchen
- onwards Dinner – Delightful things from the Alpine countries
- 19.15 Exchange of ideas at the dinner in the Congress Center.

Thursday, November 30 2023

WOOD ENVIRONMENT – Like other industries, the wood industry depends on the political and economic framework in which it operates. Therefore, it is important to consider the relevant national and international trends and economic developments in the context of an international conference.

- 07.45 Reception of attendees
Welcomeskaffee offeriert von Gutex
- 08.30 Welcome by the organizer
Prof. Dr. h.c. Heinrich Köster, Rosenheim Technical University of Applied Sciences, Rosenheim (GER)

Climate and Timber construction

Moderation: Prof. Dr. h.c. Heinrich Köster, Rosenheim Technical University of Applied Sciences, Rosenheim (GER)
Climate change and the associated increase in global average temperatures can be measured and felt. In the foreseeable future, emissions must be reduced to zero and CO₂ must be removed from the atmosphere – naturally, through organic building components such as wood.

- 08.40 Extreme weather in climate change – what do we have to adapt to?
Frank Böttcher, Klimaforscher, Cologne (GER)
- 09.20 Timber construction's contribution to climate protection
Dr. Sebastian Rüter, Thünen-Institut, Hamburg (GER)
- 09.50 Discussion
- 10.00 Coffee break in the exhibition area
Coffee sponsored by Gutex

TIMBER STRUCTURES – High performance timber structures occupy a special place in the construction industry and the general public. The use of wood increases confidence in the performance of wood as a building material and document the wide range of its use.

Selected projects

Moderation: Ass. Prof. Dr. Tobias Schauerte, Linnaeus University, Växjö (SWE)
The versatility of the building material wood is reflected in the projects of the international architecture scene. New connection techniques and material combinations create the conditions for new applications. Based on a selection of projects of international importance, this block of lectures provides an overview of the various possible uses of wood and wood-based materials in modern building construction in combination with other materials.

- 10.30 Tøyenbadet – The benefits and possibilities of wood in swimming pools
Kent Are Kristiansen, Woodcon, Oslo (NOR)
- 11.00 Innovation Factory 2.0 Heilbronn
Martin Vogelmann, merz kley partner, Dornbirn (AUT)
- 11.30 Gifu Media Cosmos – Realization of a roof landscape made of domes
Prof. Mitsuhiro Kanada, Kunstakademie Tokyo Architektur, Arup, Tokyo (JPN)
- 12.00 EDEKA's new central warehouse in wood
Johannes Lederbauer, Wiehag, Altheim (AUT)
- 12.30 Discussion
- 12.40 Lunch break in Congress Innsbruck
Coffee sponsored by isofloc

Groundbreaking multi-storey buildings

Moderation: Prof. Uwe Germerott, Bern University of Applied Sciences, Biel/Bienne (SUI)
The housing industry's demand for wooden buildings has increased significantly in recent years. Increasing trust and new wood-based materials support this development. Wooden buildings are now being implemented in new dimensions and in concepts not seen before.

- 14.10 Eco Campus Arboretum – Europe's largest development
Antoine Fouchier, Mathis, Muttersholtz (FRA)
- 14.40 Hortus – building according to the standards of tomorrow
Richard Jussel, Blumer-Lehmann, Gossau (SUI)
- 15.10 Modular construction – new dimensions
Christian Kaufmann, Kaufmann Bausysteme, Reuthe (AUT)
- 15.40 Discussion
- 15.50 Coffee break in the exhibition area
Coffee sponsored by Gutex

Gates to the world: wooden airports

Moderation: Wolfgang Alversammer, Rosenheim Technical University of Applied Sciences, Rosenheim (GER)
Every day, millions of people are on the move at the world's airports. Many airports are increasingly using wooden supporting structures in addition to wood paneling. It remains to be seen whether air traffic and climate protection can be combined, but terms such as sustainability and climate-friendly fuels have entered the vocabulary of aviation. The social and ecological framework conditions have also prompted the airport operators to rethink.

- 16.20 Airship hangar Mülheim an der Ruhr
Tobias Wiesenkämper, Ripkens Wiesenkämper Beratende Ingenieure, Essen (GER)
- 16.50 Portland International Airport Roof – from design and dimensioning to detailing, fabrication and installation
Jared M. Revay, TimberLab, Portland (USA)
- 17.20 Airport City Airport Luxemburg – Skypark Business Center
Dirk Berg, Steffen Holzbau, Grevenmacher (LUX)
- 17.50 Discussion
- 18.00 Coffee break in the exhibition area
Coffee sponsored by tectofix-Bauer Technik

WOOD CONSTRUCTION DEVELOPMENT – The International Wood Construction Forum is a meeting place for innovated companies, product developers and researchers in the timber industry. In this block, the latest developments, solutions and research results are presented, to exchange ideas with companies and to initiate new research projects.

Eurocode 5 – What will change, what is new?

Moderation: Dr. Simon Aicher, MPA University of Stuttgart, Stuttgart (GER)
The aim of revising the design standards is to adapt the standards to the current state of the art. The target group are trained civil engineers with three years of professional experience. The standards are therefore not written for laypeople, but for experts. Following the discussions in the past and the comments of users, the European Standardization Institute (CEN) has defined the "ease of use" for the second generation of the Eurocodes as one of the core goals of the new series of standards to be implemented, i.e. practical suitability and improved applicability.

- 10.30 The evolution of the Eurocode 5 – an overview with focus on DIN EN 1995-1-1
Prof. Dr. Stefan Winter, Technical University Munich, bauart – Beratende Ingenieure, Lauterbach (GER)
- 11.00 Design of timber-concrete-composite floors according to CEN/TS 19103
Prof. Dr. Jörg Schänzlin, Hochschule Biberach, Biberach (GER)
- 11.30 Cross laminated timber & block-bonded laminated veneer lumber – the new EC5 material options
Dr. Tobias Wiegand, Studiengemeinschaft Holzleimbau, Wuppertal (GER)
- 12.00 Dimensioning of openings – extended possibilities with the new Eurocode 5
Prof. Dr. Philipp Dietsch, Karlsruhe Institute of Technology, Karlsruhe (GER)
- 12.30 Discussion
- 12.40 Lunch break in Congress Innsbruck
Coffee sponsored by tectofix – Bauer Technik

Bio-based wood adhesives and CO₂-optimized wood-based materials

Moderation: Dr. Simon Aicher, MPA University of Stuttgart, Stuttgart (GER)

Against the background of the "European Green Deal" and the associated objective of doing business in the EU in a climate-neutral manner by 2050, companies are developing their own climate targets, with a focus on emissions. By decarbonizing processes, it should be possible to avoid burning fossil fuels in the future. However, higher demands are placed on load-bearing components. The agenda is something like the search for the Holy Grail: 100% emission-free adhesives for load-bearing wood-based materials based on renewable raw materials.

- 14.10 Bio-based adhesives for the wood industry
Dr. Christian Hübsch, UPM Biochemicals, Leuna (GER)
- 14.40 Carbon footprint along the supply chain
Dr. Martina Bender, Egger Holzwerkstoffe, St. Johann (AUT)
- 15.10 New generation PUR with renewable carbon compounds
Dr. Christian Fild, Henkel, Sempach (SUI)
- 15.40 Discussion
- 15.40 Coffee break in the exhibition area
Coffee sponsored by Gutex

Adhesive bonding technology

Moderation: Dr. Simon Aicher, MPA University of Stuttgart, Stuttgart (GER)

The block "adhesive bonding" gives an insight into the basic requirements for modern wood adhesive bonding and shows the close link between gluing technology and the introduction of innovative wood products. New developments in timber construction based on adhesive technology will be presented.

- 16.20 Glued board and rib elements, reinforcements and repairs – the extended possibilities of the new DIN 1052, parts 10 and 11
Dr. Simon Aicher, MPA University of Stuttgart, Stuttgart (GER)
- 16.50 Long-span butt-bonded cross-laminated timber ceilings – the revolutionary Timber Structures 3.0 technology
Sven Bill, Timber Structure 3.0, Thun (SUI)
Dr. Marcel Muster, Timbatec Holzbauingenieure Schweiz, Zurich (SUI)

- 17.20 Adhesive technology for timber components in Japan, Industrial manufacturing, block bonding, quality control
Dr. Takahiro Tsuchimoto, Building Research Institute, Tsukuba (JPN)
- 17.50 Discussion
- 18.00 Coffee break in the exhibition area
Coffee sponsored by tectofix-Bauer Technik

MASTER COLLOQUIUM – The Master of Science in Wood Technology from Bern University of Applied Sciences and Rosenheim Technical University of Applied Sciences announces an international call for papers for master students to present their thesis with a topic related to the wood construction industry.

Wood construction for the future – enhanced design approaches and engineered materials to turn concepts into reality

Moderation: Prof. Dr. Christophe Sigrist, Bern University of Applied Sciences

- 10.30 Welcome and introduction
Christa Gertiser, Bern University of Applied Sciences
- 10.35 Behaviour factor for light frame timber shear walls in the context of the second generation of the Eurocode
Lukas Kramer, Bern University of Applied Sciences
- 11.00 Investigation of lateral torsional buckling of timber beams under combined bending and compression
Julian Lukas, University of Stuttgart
- 11.25 Analysis of the adhesive bond strength in cross-laminated timber components regarding the influences on the adhesive bond quality based on shear tests
Paul Selmer, OTH Regensburg
- 11.50 Concept study on a maximally sustainable, industrially manufactured house with wood panel contraction
Pia Link, Rosenheim Technical University of Applied Sciences
- 12.15 Discussion
- 12.40 Lunchtime
Coffee sponsored by tectofix – Bauer Technik

Wood construction of the future – reuse timber components and extend the life of existing timber structures

- 14.00 Circularity in Timber Construction
Leoni Lichtblau, Technical University of Munich
- 14.25 branntneu. Neighbourhood development and redensification in timber construction on the Brantweinareal in Munich
Anna Maria Brendel, Technical University of Munich
- 14.50 Discussion

WORLD CAFÉ AS PART OF THE MASTER'S COLLOQUIUM

Opportunity for networking and exchange between manufacturing companies, architects, planners and designers. Opportunities, challenges and open research questions for four subject areas are discussed in small groups. The thematic tables are moderated by experts from the universities involved in the Forum Holzbau, accompanied by the Bavarian Research Alliance. The World Café offers a starting point for topic-specific working groups and joint research projects.

- 15.00 Welcome and goal setting for World Café
Prof. Andreas Heinzmann and Prof. Maren Kohaus, Rosenheim Technical University of Applied Sciences (GER)

Friday, December 1 2023

- 15.05** Opportunities for cooperation in timber construction
– creative and innovative solutions through knowledge transfer and interdisciplinary exchange
Prof. Andreas Heinzmann and Prof. Maren Kohaus, Rosenheim Technical University of Applied Sciences (GER)
- 15.20** World Café – Discussion in small groups at (4) theme tables
- Practical uses of robotics in timber construction
Moderation: Prof. Andreas Heinzmann, Rosenheim Technical University of Applied Sciences (GER)
- Data flow in timber construction – from the BIM model to automated production
Moderation: Prof. Dr. Daniel Küppersbusch, Rosenheim Technical University of Applied Sciences (GER)
- Hardwood in timber construction – opportunities and challenges
Anne Niemann, Rosenheim Technical University of Applied Sciences (GER)
- Circular building: new architectural construction and design principles
Moderation: Prof. Hanspeter Bürgi, Bern University of Applied Sciences, Biel/Bienne (SUI)
- 15.50** Coffee break in the exhibition area
Coffee sponsored by Gutex
- 16.20** World Café – continued
- 17.20** Presentation of the group work
- 17.40** Discussion and next steps
- 18.00** Coffee break in the exhibition area
Coffee sponsored by tectofix-Bauer Technik

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Moderation: Prof. Dr. h.c. Heinrich Köster, Rosenheim Technical University of Applied Sciences, Rosenheim (GER)

- 18.30** The significance of ChatGPT
Prof. Dr. Alexander Pretschner, Technical University Munich, Munich (GER)
- 19.10** Tribute to individuals with exemplary service to the wood construction industry.

George Kuratle, Entrepreneur (SUI)

Born in 1953, the entrepreneur continued to develop the family business founded by his father in 1955, initially operating regionally, into the most important group of companies in the Swiss wood-based materials market. Today's internationally oriented trading and logistics company is one of the market leaders in the wood processing industry. Known as a pioneer who always thinks outside the box, Georg Kuratle also consistently uses wood as a renewable material in his own projects. He continues to actively contribute his knowledge, his experience and his visions to the group and to numerous committees and industry organizations.

Univ.-Prof. i.R. Dr. Alfred Teischinger (AUT)

Born in 1954, the scientist and world-renowned wood expert studied wood science, earned his doctorate, and after leading positions in research he was appointed professor at the University of Natural Resources and Applied Life Sciences in Vienna, where he led the Institute for Wood Research and the Department of Materials Science and Process Technology. He is known for his activities in national and international committees and his business-related expertise. After his retirement in 2019, he continues to work as a consultant in teaching and business.

- onwards** Gala dinner at the Innsbruck exhibition center
20.00 *Coffee sponsored by Koch & Schulte*

WOOD STRUCTURES – Wood structures are unique and different from other structures from an environmental point of view. As a natural and renewable resource, wood has qualities that are vital to our survival. If wood as a building material did not exist, we would have to invent it. Accordingly, all stakeholders in the construction industry are called upon to ensure that wood plays a greater role as a construction material than in the recent past.

Block A

Exposed engineering structures

Moderation: Prof. Dr. Philipp Dietsch, Karlsruher Institut für Technologie, Karlsruhe (GER)

Realizing extraordinary engineering structures made of wood has always had a special appeal for planners and engineers. In addition to bridges and towers, timber construction has opened up new areas of application in recent years, such as wooden car parkades. But wooden bridges are also increasingly in demand. The revision of Eurocode 5-2 "Timber bridges" comes at the right time. Damage to existing structures also helps to learn lessons for the planning and execution of future wooden bridges.

- 08.30** Eberswalde bicycle parkade
Prof. Dr. Michael Staffa, ifb frohloff staffa kühl ecker, Berlin (GER)
- 09.00** Car park Schwanenweg Wendlingen
Juliane Deubel, knippershelbig, Stuttgart (GER)
- 09.30** Bad Aibling multi-storey parkade – added value with wood
Matthias Eisele, merz kley partner, Dornbirn (AUT)
- 10.00** Coffee break
Coffee sponsored by Koch & Schulte
- 10.30** The new Eurocode 5-2 – Timber bridges: changes and innovations
Matthias Gerold, Harrer Ingenieure, Karlsruhe (GER)
- 11.00** The Tretten bridge collapse, how could it happen
Prof. Kjell Arne Malo, Norwegian University of Science and Technology, Trondheim (NOR)
- 11.30** Green Gantry – Wooden toll bridges
Dr. Georg Flatscher, freiraum, Graz (AUT)
David Glasner, University of Graz, Graz (AUT)
- 12.00** Discussion
- 12.20** Coffee break
Coffee sponsored by Dynea

Block B

Robust structures

Moderation: Prof. Michael Flach, University of Innsbruck, Innsbruck (AUT)

Safety in relation to a possible structural failure should be carefully considered, especially in the case of structures with large numbers of visitors. Thanks to axial load transfer, so-called redundant structures have the ability to dissipate loads through redistribution via different paths. As a result, they do not fail when the limit of one component is reached, but they use reserves of the entire system. The selected examples show interesting solutions on how the efficiency of supporting structures can be increased to make the load-bearing capacity safer.

- 08.30** Introduction to redundant load-bearing structures
Example of beam and truss gratings
Prof. Michael Flach, University of Innsbruck, Innsbruck (AUT)
- 09.00** Reciprocal Frame Roof of the Events Beacon for a Tech Office Building in California
Eric Karsh, Equilibrium Consulting, Vancouver (CAN)

- 09.30 Resource-efficient wooden segment shells
Prof. Dr. Jan Knippers, University of Stuttgart, Stuttgart (GER)
- 10.00 Coffee break
Coffee sponsored by Koch & Schulte
- 10.30 Sports hall in Donzère with Moucharabieh beams
Andréa Voisin, Arborescence, Lyon (FRA)
- 11.00 Wisdome – Technical museum Stockholm
Stefan Rick, SJB Kempter Fitze, Frauenfeld (SUI)
- 11.30 Sports hall in Zurich with prestressed glulam beams
Dr. Marcel Muster, Eidgenössische Technische Hochschule, Zurich (SUI)
- 12.00 Discussion
- 12.20 Coffee break
Coffee sponsored by Dynea

Block C

Multi-storey timber construction today – reliable, innovative and economical

Moderation: Prof. Andreas Müller, Bern University of Applied Sciences, Biel/Bienne (SUI)

Timber construction has established itself as a sustainable, reliable and economical construction method for multi-storey buildings well beyond the fire risk limit. In the case of large-volume projects in particular, the usual planning and production processes in timber construction benefit professional implementation. This minimizes the risks compared to conventional construction methods. Particular attention is paid to economic efficiency in the concepts – in addition to a high level of safety, robustness and reliability over the entire service life. This also creates space for continuous further developments and innovations.

- 08.30 Introduction
- 08.40 Structural concepts for slim, tall wooden buildings
Charles Binck, Eidgenössische Technische Hochschule, Zurich (SUI)
- 09.10 Limberlost Place, George Brown College, Toronto – innovative, wide-span ceiling system
Robert Jackson, Fast & Epp, Vancouver (CAN)
- 09.40 b_project – the one-stop-shop solution for economical, multi-storey wooden buildings
Helmut Spiels, Binderholz, Fügen (AUT)
- 10.10 Coffee break
Coffee sponsored by Koch & Schulte
- 10.40 The hybrid high-rise CARL in Pforzheim – lessons learned
Peter W. Schmidt, Peter W. Schmidt Architekten, Pforzheim (GER)
- 11.10 Mid- and high-rise timber buildings in Japan
Prof. Dr. Mikio Koshihara, University of Tokyo (JPN)
- 11.40 Stockholm Wood City – the project sets new standards
Oskar Norelius, White Arkitekter, Stockholm (SWE)
- 12.10 Discussion
- 12.20 Coffee break
Coffee sponsored by Stora Enso Wood Products

Block D

TUM.wood – Adventure Wood Research – a discussion forum
Moderation: Prof. Dr. Stefan Winter, TUM.wood, Munich (GER)

This block provides insights into the colorful world of wood research and beyond into the field of new developments and contrarian practices.

- 08.30 **Teil 1: The future of wood use**
Short presentations followed by a podium discussion
Dr. Susanne Winter, WWF Deutschland, Berlin (GER)
Johannes Schmitt, Deutscher Forstwirtschaftsrat, Berlin (GER)

The future use of wood is closely linked to the goals of climate protection and the preservation of biodiversity. At the same time, the wood market is significantly influenced by the issues of wood supply on a national and international level. How do we create a balanced approach to these issues to reconcile environmental sustainability and economic progress?
- 10.00 Coffee break
Coffee sponsored by Koch & Schulte
- 10.45 **Short presentations followed by a podium discussion**
Kurzvorträge mit anschließendem Diskussionsforum
Prof. Dr. Andreas Bolte, Thünen-Institut für Waldökosysteme, Eberswalde (GER)
Ludwig Lehner, Technikum Laubholz, Göppingen (GER)

The National Forest Inventory shows increasing wood stocks, especially hardwood. Damage caused by heat, drought and insects lead to an increase in the amount of damaged wood, especially in the case of spruce. In the future, due to climate change and planned forest adjustments, a decline in conifers and an increase in deciduous trees is expected. What about the usage options for hardwood? Which steps are necessary to promote the efficient material use of hardwood?
- 12.20 Coffee break
Coffee sponsored by Stora Enso Wood Products

room Tirol

EPILOG

From tradition into the future

The arrival of European and Asian timber construction cultures in the 21st century

Moderation: Prof. Wolfgang Winter, Technical University Vienna, Vienna (AUT)

A look at the media shows that urban, multi-storey hybrid timber construction has made a comeback in the 21st century after being almost completely replaced by steel and reinforced concrete in the 20th century. Historic and modern examples will be shown from the German speaking area and Japan. These regions build on diverse and innovative timber building cultures, which also enriched building technology and architecture in the urban context up to the end of the 19th century. The epilogue is intended to discuss the extent to which centuries-old technical and cultural achievements in timber construction have been preserved, despite being suppressed in the 20th century, and can be reactivated and further developed in the 21st century. In addition to technical questions and cultural aspects, this also includes questions of resource availability and the feasibility of a renewed conversion of construction production.

- 12.50** Timber construction in Japan
About flexible floor plans and the way from temple building to urban multi-storey buildings
Prof. Em. Dr. Seiichi Fukao, Tokyo Metropolitan University, Tokyo (JPN)
- 13.15** New construction of a studio and exhibition building for Ai Weiwei in traditional log construction
Ana Sofia Veiga Architektin, Vendas Novas (PRT)
João Veloso Architekt und Projektmanager bei Portilame, Braga (PRT)
- 13.40** Does timber construction have limits of growth?
Prof. Dr. Philipp Dietsch, Karlsruhe Institute of Technology, Karlsruhe (GER)
- 14.05** Timber Construction in Europe – Achievements and Future Prospects
Dr. Sandra Hofmeister, Detail, Munich (GER)
- 14.35** Discussion and final words
- 14.40** Lunch
Coffee sponsored by
- 15.30** End of IHF 2023

Apart from gaining knowledge from the formal sessions, participants have the opportunity to learn about the latest developments and innovations in wood construction in the parallel trade show, where the sponsors and other companies are presenting their products. Take advantage of the breaks to get an overview, to socialize and to deepen existing contacts.

The organizers, sponsors and exhibitors wish you an interesting and enjoyable 27th International Wood Construction Conference IHF 2023.

Place of the Conference

Congress Innsbruck, Rennweg 3, 6020 Innsbruck, Austria

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You can find our partner hotels on our website:

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Contact during the event

Simone Burri
T +41 79 448 30 07

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Please fill out the attached form and send it to the address below by mail:

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Bahnhofplatz 1
2502 Biel/Bienne, Switzerland
T +41 32 327 20 00
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Closing date for registration November 22 2023

The number of participants is limited. Registrations are processed in the order in which they are received.

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Innsbruck, Congress Centrum

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