

FORUM HOLZBAU INTERNATIONAL

24th International Wood Construction Conference (IHF)

5 - 7 December 2018

Garmisch-Partenkirchen, Congress Centrum (GER)

Practical experience – Practical application

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24th International Wood Construction Conference (IHF 2018)

5-7 December 2018

Garmisch-Partenkirchen, Congress Centrum

Practical experience – Practical application

The International Wood Construction Conference (IHF2018) 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.

Guest Country Australia

This year's guest country at the IHF 2018, Australia, presents current projects and topics from Down Under.

Simultaneous translation

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

Wednesday, 5 December 2018

Opening session

Building for institutions, investors and housing cooperatives

Moderation: Christoph Starck, LIGNUM – Holzwirtschaft Switzerland, Zurich (SUI)

Wood construction has been gaining popularity in the large and very large scale, in the horizontal as well as in the vertical dimension. Large residential and office buildings belong everywhere in the world to the construction repertoire with the renewable resource. Because digitalisation and prefabrication have been established in wood construction for decades, the sector also plays a leading role in the dawning era of building information modelling (BIM). With BIM, investors receive higher quality timber structures with time savings compared to conventional types of construction. The short construction time directly translates into faster income from the finished object. New objects also show that wooden structures created by the most modern building techniques are not more expensive than other structures and that the old prejudice of higher costs in timber construction has to be revised.

08.15 Reception of attendees
Coffee sponsored by Sihga

08.55 Welcome
Christoph Starck, LIGNUM – Holzwirtschaft Switzerland, Zürich (SUI)

09.00 Future living – the city of tomorrow
Christiane Varga, Zukunftsinstitut, Frankfurt (GER)

09.30 Wooden city: current market developments
Rüdiger Hornung, Wuest & Partner, Munich, (GER)

10.00 New framework for serial and modular housing concepts
Fabian Viehrig, GdW Bundesverband deutscher Wohnungs- und Immobilienunternehmen e.V., Berlin (GER)

10.30 Coffee break
Coffee sponsored by Metsä Wood

11.00 Residential buildings in wooden modular construction
Dr. Hans-Peter Lorenz, Vorarlberger gemeinnützige Wohnungsbau- und Siedlungsgesellschaft (VOGEWOSI), Dornbirn (AUT)

11.30 Urban planning in wood – also in compact construction
Adrian Wyss, Implenia Schweiz, Real Estate Consulting, Zurich (SUI)

12.00 On the wooden path – Lendlease embraces industrialisation for construction regionally and globally
Karlheinz Weiss, Lendlease, Sydney (AUS)

12.30 Discussion

12.40 – 13.45 Lunch break
Coffee sponsored by Dynea

Wednesday, 5 December 2018

Pre-Conference Seminar I

Architecture Forum

Organized by TU Munich in close collaboration, Munich (GER)

Wood in the new architecture

Moderation: Prof. Hermann Kaufmann, Technical University Munich, Munich (GER)

The speakers invited to this prologue are well-known architects and young designers, which have an affinity for wood as building material. What moves them, what significance do they give the renewable construction material in their work and where do they see the opportunities? In any case, they will show outstanding and beautiful architectural examples and provide inspiration.

13.15 Reception of attendees

13.45 Welcome
Prof. Hermann Kaufmann, Technical University Munich, Munich (GER)

14.00 About added value
Martin Kopp, F 64 Architekten, Kempten (GER)

14.35 Architecture in wood
Véronique Klimine und Olavi Koponen, R2k architectes, Grenoble (FRA)

15.10 In between
Sven Matt, Innauer Matt Architekten, Bezau (AUT)

15.45 Coffee break in the exhibition area
Coffee sponsored by Lignatur

16.15 Industrial tectonics – The office building S22 in Rotkreuz
Oliver Dufner, Burkard Meyer Architekten, Baden (SUI)

16.50 Wood in the urban building stock
Christian Schühle und Martin Kühfuss, Huß Kühfuss Schühle Architekten (HKS), Munich (GER)

17.25 Timber Construction as a catalyst for innovation in Australia
Ninotschka Titchkosky, Architecture BVN, Sydney (AUS)

18.00 Discussion

Pre-Conference Seminar II

Prefabricated housing forum

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

System integration in logistics and processes

Moderation: Georg Lange, German Federal Society for Prefabricated Housing (BDF), Bad Honnef (GER)

Industrial manufacturing requires sophisticated processing concepts. Many processes run from the idea to the finished product and they have to match each other exactly. Process optimization and operational logistics offer great potential of added value in the construction sector. However, industrial production also needs standards, systematic components and kits as well as construction groups, which are combined to form unique architectural pieces. And industrial production requires digital infrastructure in which everyone involved can work.

13.15 Reception of attendees

13.45 Welcome
Georg Lange, German Federal Society for Prefabricated Housing (BDF), Bad Honnef (GER)

14.00 Production logistics 4.0 in prefabricated construction – Navigation network for tracking vehicle, person and goods movements as well as the control of transport robots
Thomas Solle, SC Solle Consulting, Barntrop (GER)
Tobias Hehl, HUF Haus, Hartenfels (GER)

14.35 Process optimization: key position logistics manager
Stephan Zürcher, Schuler Consulting, Pfalzgrafenweiler (GER)

15.10 Digital process support:
planning – production – logistics – assembly
Max Renggli, Renggli, Schötz (SUI)

15.45 Coffee break in the exhibition area
Coffee sponsored by Stora Enso Timber Deutschland

16.15 Integral planning and construction in practice
Elisabeth Aberger, Direktion Bayern, Züblin, Munich (GER)

16.50 Open Source: Modular kits for affordable housing
Markus Lechner, Technical University Munich, Munich (GER)

17.25 Digitization in construction: what is the optimum?
Dr. Manuel Schönwitz, Porsche Consulting, Bietigheim-Bissingen (GER)

18.00 Discussion

Thursday, 6 December 2018

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 political trends and economic developments in the context of an international conference.

- 08.45 Reception of attendees
Welcome coffee sponsored by tectofix
- 08.30 Welcome
Prof. Dr. h.c. Heinrich Köster, Technical University Rosenheim, Rosenheim (GER)

Market requirements – future challenges for management and resource wood

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

The timber industry and its management are facing great challenges. Human-computer cooperation is essential for a successful implementation of industry 4.0 and digitisation. Managers need to understand the impact of digitalization and the applications of digital technologies. Existing business models need to be evaluated and expanded. At the same time, the importance of and demand for the resource wood increase.

- 08.35 Management in the digital age
Prof. Dr. Horst Wildemann, Technical University Munich, Munich (GER)
- 09.10 Resource Wood – resource-efficient use in the wood-based bioeconomy: timber industry, timber construction and more
Prof. Dr. Matthias Zscheile, Technical University Rosenheim, Rosenheim (GER)
- 09.40 Discussion
- 09.50 Coffee break in the exhibition area
Coffee sponsored by Jowat

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

Prefabricated floor systems for modern multi-storey construction

Moderation: Ass. Prof. Dr. Tobias Schauerte, Linnaeus University, Växjö (SWE)

Optimized wood or wood-hybrid floors provide advanced properties and therefore also new fields of application. Prefabricated and economic systems should contain all relevant information for planners and builders. The sum of all functions is a precondition for an economic floor construction in wood. An important step in the right direction will be the inclusion of design provisions for wood-concrete-composite floors in the next edition of Eurocode 5.

- 10.20 Hollow box elements – optimized material with space for ideas
Ralph Schläpfer, Lignatur, Waldstatt (SUI)
- 10.50 LVL rib panels – A competitive alternative for medium spans in flexible floorplans
Sebastián Hernández, Stora Enso Timber Deutschland, Pfarrkirchen (GER)
- 11.20 Wood-concrete composite floors – new knowledge for the design of large spans or high loads
Simon Mönch, University Stuttgart, Stuttgart (GER)
- 11.50 The future design of wood-concrete composite floors in Eurocode 5
Ass. Prof. Alfredo Dias, University of Coimbra, Coimbra (PRT)
- 12.30 Discussion
- 12.40 Lunch in the Richard Strauss room
Coffee sponsored by Isofloc

Timber high-rises – current projects

Moderation: Prof. Uwe Germerott, Berner Fachhochschule, Biel (SUI)

Whether in the country or city, multi-storey timber construction has reached or already exceeded the high-rise building limit. The perception and acceptance of these structures is constantly increasing. Projects already built or currently under construction will be presented.

- 14.00 Use of tension rods in wood construction – 14 storeys – with laminated veneer lumber as shear walls:
*Lighthouse Joensuu
Mika Keskisalo, University of Applied Science Karelia, Joensuu (FIN)*
- 14.30 Suurstoffi BF1 Rotkreuz: 60 Meter – 15 storeys – 15 weeks
Pirmin Jung, Pirmin Jung Ingenieure, Rain (SUI)
- 15.00 Mjøstårnet – 18 storey timber building completed
Rune Abrahamsen, Moelven Limtre, Moelv (NOR)
- 15.30 Discussion
- 15.40 Coffee break in the exhibition area
Coffee sponsored by Gutex

Timber engineering – outstanding international projects with charisma

Moderation: Prof. Dr. Guido Wimmers, University of Northern British Columbia, Prince George (CAN)

The versatility of the building material wood is reflected in the international architecture. New connection techniques and material combinations create new opportunities. A selection of projects of international significance – as is tradition at the IHF – will provide an overview of the various possibilities of wood and wood-based materials in combination with other materials in modern, and this year specifically, large-span structures.

- 16.10 Shane Homes YMCA at Rocky Ridge, Canada
Nicholas Sills, Structurlam, Vancouver (CAN)
- 16.40 Train stations in wood, Lorient (France) / Chendou (China)
Olivier Boissonnet, AREP, Paris (FRA)
- 17.10 Whisky-Destillerie Macallan, Scotland
*Dr. Erich Wiesner, Wiehag, Altheim (AUT)
Clemens Huber, Wiehag, Altheim (AUT)*
- 17.40 Mactan Cebu International Airport, Philippines
Anton Wanas, Rubner Holzbau, Ober-Grafendorf (AUT)
- 18.10 Discussion
- 18.20 Coffee break in the exhibition area
Coffee sponsored by Isocell

Research and Development

Organized by Materialprüfanstalt (MPA) University Stuttgart

The IHF is a meeting point for researchers and developers from the timber industry. The R&D stream provides an international platform for the presentation of research results, exchange with the industry and initiation of new projects. The stream will give an overview of some current research projects and implementations, broken down into three sessions where technological developments and the newest pioneering technologies and construction methods are presented.

Rehabilitation of historically significant wooden buildings / structures

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

Every historical wooden building is unique, and its long-term preservation requires careful renovation and building-friendly use. A coherent strategy for regular monitoring and maintenance is essential for the protection of historic wooden buildings and the preservation of their cultural significance. The most important objective for the protection and the preservation of historic timber buildings is to preserve their historical authenticity for sustainable use – using latest technology.

- 10.30 Armoury Solothurn: Clear concepts – advantages in the realization
Kurt von Felten, Makiol Wiederkehr, Beinwill a. See (SUI)
- 11.00 The wonder of Mannheim – the rehabilitation concept for the Multihalle
Dr. Jochen Stahl, Fast und Epp, Darmstadt (GER)
- 11.30 The Hofmühlesteig – innovations through adhesive repairs
Franz Bammer, Holzbau Bammer, Scharnstein (AUT)
- 12.00 Repair of the King-Ludwig-Bridge in Kempten
Prof. Dr. Jörg Schänzlin, Hochschule Biberach, Biberach (GER)
- 12.30 Discussion
- 12.40 Coffee break in the exhibition area
Coffee sponsored by Isofloc

Possibilities in wood-wood joining technology through new production technologies

Moderation: Tim Butler, Lendlease, Sydney (AUS)

Automated manufacturing technologies are often already present in wood construction companies. By linking computer-aided-design, simulation and manufacturing processes, innovative and at the same time efficient and resource-saving designs are possible. Robot-assisted processes enable new solutions in joining with connections that not only allow to transfer forces between components but that also provide shape to the structure. Such simple and precise joints are possible even in many different shapes and surface angles. Robotic manufacturing including automated bonding, opened a wide field of new applications for wood and modern engineering wood products.

- 14.00 Timberdome: Construction system for CLT shells without screws
Prof. Dr. Christopher Robeller, Technical University Kaiserslautern, Kaiserslautern (GER)
- 14.30 Le Pavillon du Théâtre de Vidy: The implementation of a research project from the perspective of the builder
David Riggenschach, Blumer-Lehmann, Gossau (SUI)
- 15.00 Bionic segmented wooden sheels: integrative agent-based modeling and robotic manufacturing
Prof. Achim Menges, University Stuttgart, Stuttgart (GER)
- 15.30 Discussion
- 15.40 Coffee break in the exhibition area
Coffee sponsored by Gutex

Designing and constructing of wood high-rise buildings

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

The limits of wood construction in Europe, North America and Asia are being pushed higher and the following questions arise: are there limits to the top, where are they, what scale effects dominate? Can statics and dynamics of the load-bearing structure always be optimized with the fire protection and building physics requirements? What bracing concepts (frames, shear walls..) are most effective from a comprehensive point of view? What are the challenges for sustainable and safe wood skyscrapers?

- 16.10 Novel technologies for tall timber buildings – research streams and three solutions
Dr. Fernando Dilum, University of Queensland, Brisbane (AUS)
- 16.40 Wooden high-rise buildings – design principles, load transfer, composite construction, dynamic behavior
Prof. Dr.-Ing. Volker Schmid, Technical University Berlin, Berlin (GER)
- 17.10 Multi-storey timber construction – are there any limits? Interaction of statics, fire protection, building physics and economics
Carsten Hein, ARUP Deutschland, Berlin (GER)

- 17.40 Panel discussion wood (high-rise) buildings
Moderation: Dr. Simon Aicher, MPA Universität Stuttgart, Stuttgart (GER)
Carsten Hein, Volker Schmid, Pirmin Jung, Rune Abrahamsen, Christoph Steuerwald, Mika Keskiälo, Fernando Dium
- 18.20 Coffee break in the exhibition area
Coffee sponsored by Gutex

Guest lecture and personal tributes

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

- 18.50 How we have to build tomorrow
Prof. Dr. Werner Sobek, Werner Sobek Stuttgart, Stuttgart (GER)

Wood has been the focus of their careers. They have promoted wood as a construction material that will play a central role on the sustainability markets of the future.

- 19.30 Tribute to individuals with exemplary service to the wood construction industry.

Werner Eckert, Zimmermann/Techniker

After starting his career in Architecture and construction management, Werner Eckert joined the timber engineering pioneer Amann, first in costing and project management, and later as CEO. With a passion for structural optimization, he was involved in early timber lighthouse projects, always open to innovative solutions, also in areas of data processing and CNC processing. In the early 90s, Werner Eckert implemented his idea of the cross-lamination of lumber in the then so-called „wood block panel“ and founded Lignotrend. He is therefore one of the fathers of cross-laminated timber. Today, the brand LIGNO® stands for optimized CLT solutions, also in applications where wood construction for a long time had a bad image such as fire protection, sound insulation and room acoustics. In his „retirement“ Werner Eckert revived a small sawmill in South Baden and closed the regional value chain between forest and CLT producer.

Laudatio: Hermann Blumer, Waldstatt (SUI)

Prof. Dr. Emeritus Matti Kairi, Aalto University Helsinki

In the context of laminated-veneer-lumber (LVL), the name Matti Kairi, as the „father of KERTO“ will be mentioned for sure. As „Mr. Kerto“ he has devoted virtually his entire pre-scientific, professional career to the development and market introduction of KERTO LVL. After studying wood technology in Helsinki, Matti Kairi began his career with the Finnish Metsäliitto Group, the present-day Metsä group, where he was responsible at different positions. After his doctorate and habilitation he assumed the position of Professor of Wood Technology at the Aalto University of Helsinki, which he held until the year 2013. In these years, Matti Kairi further developed the previously almost unknown engineered wood product into a high performance option for many international applications. In addition, he was and is interested and also engaged in many other topics, for example the sustainability assessment. Matti Kairi was awarded the „Schweighofer Prize“ in 2007 and now serves there as a jury member. Within the IHF, for many years, he has been a member of the Board of Directors, representing Aalto University, and has been an active organizer.

Laudatio: Karl Moser, Aichach (GER)

- ab 20.00 Social evening: delicacies from the guest country Australia
Coffee sponsored by Knauf and Dessert by SFS intec

Friday, 7 December 2018

Timber structures – Wood structures are unique and different from any 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

Wood protection: constructive in the structure and functional in the facade

Moderation: Prof. Volker Schiermeyer, Fachhochschule Bielefeld, Bielefeld (GER)

Wood protection is one of the most important aspects for building with wood and must be, due to the variety of different projects, considered differently. In that context, the facade not only comes visually to the foreground. A well-thought-out plan for the facade is required to protect the structure. This task provides the designs of towers and bridges with additional challenges. Solutions for wood protection are shown at hand of different examples.

08.30 Functional surface protection of wooden facades
Prof. Dr. Thomas Volkmer, Berner Fachhochschule, Biel (SUI)

09.00 Facade – planning and construction
Tobias Götz, Pirmin Jung Deutschland, Sinzig (GER)

09.30 Thermal insulation composite systems in timber house construction – findings from recent years
Sylvia Polleres, Holzforschung Austria, Vienna (AUT)

10.00 Coffee break
Coffee sponsored by Saint-Gobain Rigips

10.30 Agricultural buildings with wood – is preventive chemical wood protection inevitably necessary?
Dr. Philipp Dietsch, Technical University Munich, Munich (GER)

11.00 Tower structures in wood – the pursuit of durability
Frank Miebach, Ingenieurbüro Miebach, Lohmar (GER)

11.30 What does „protected“ mean – truss bridge across the meadow and the B 317 in Lörrach
Josef Schmees, Schmees & Lühn, Fresenburg (GER)

12.00 Coffee break
Coffee sponsored by Türmerleim

Block B

Industrial commercial buildings

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

The choice of a commercial building in wood is a cost issue first and foremost, therefore the efficiency of the structural system is paramount. Because commercial building mostly involves large flat roofs that have specific fire safety requirements, this issue is discussed in particular. Customized structural approaches as well as system solutions are presented with examples from Central Europe.

08.30 Monitoring – reliable information for the long-term and efficient preservation of value of flat roof constructions
Andreas Rödel, Progeo Monitoring, Großbeeren (GER)

09.00 Fire protection solutions for large-scale roof elements in industrial construction
Michael Merk, Technical University Munich, Munich (GER)

09.30 Large wooden flat roofs – flat roof and industrial building guidelines
Richard Adriaans, Interessengemeinschaft Qualitätsmanagement für Dächer und Flachdachabdichtungen (IQDF), Herford (GER)

10.00 Coffee break
Coffee sponsored by Saint-Gobain Rigips

10.30 Customized industrial halls in France
Laurent Clère, Arborescence, Lyon (FR)

11.00 Innovative connection systems for competitive commercial structures
Samuel Blumer, sblumer, Graz (AUT)

11.30 Commercial buildings 4.0 – Future Concepts: the local supplier on site
Stefan Eberhard, LIGNA construct, St. Vith (BE)

12.00 Coffee break
Coffee sponsored by Türmerleim

Block C

Future concepts for multi-storey timber construction

Moderation: Prof. Andreas Müller, Berner Fachhochschule, Biel (SUI)

Worldwide, more and more and ever-higher wood structures are being built, also in the public sector. The multi-storey timber construction has been established as a standard in many countries. More and more cities have discovered timber construction as a unique selling point for their marketing. The political will is present and often the driving force for the start into new dimensions of building with wood. Innovative solutions and interesting approaches to the challenges will be presented.

-
- 08.30 It's a Match! Cree on the home stretch for sustainable system construction
Annette Riel, Cree by Rhomberg, Dornbirn (AUT)
-
- 09.00 Model project in Deux-Rives in Strassbourg.
11-storey building as start of a new timber era in France.
Thomas Steuerwald, Ingénierie Bois, Bischheim (FRA)
-
- 09.30 SKAIO Heilbronn, the first wooden high-rise in Germany – experiences from planning and construction
Prof. Tom Kaden, Technical University Graz, Graz (AUT)
Anders Übelhack, Züblin Timber Aichach, Aichach (GER)
-
- 10.00 Coffee break
Coffee sponsored by Saint-Gobain Rigips
-
- 10.30 Structural design and fire protection of wooden school buildings – Construction of a four-storey school in Odelzhausen in class 5
Phillip Bartnitzek, Planungsgesellschaft Dittrich, Munich (GER)
-
- 11.00 The new train station and town hall of Växyö.
A modern and visionary wood-glass construction.
Elin Hiller, Skanska Servige, Stockholm (SWE)
Hans-Frederik Helldahl, Skanska Servige, Stockholm (SWE)
-
- 11.30 The future for office buildings
Jonathan Evans, Tzannes Architects, Sydney (AUS)
-
- 12.00 Coffee break
Coffee sponsored by Türmerleim

Epilog

Cities build new cities: approaches to promoting wood in sustainable construction

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

European timber construction has its roots in the regions and in the crafts. Urban construction, where large volumes must be realized in a short time and mostly high requirements of economy and architectural quality standards are to be met, is now being learned. Cheap but not renewable mineral construction still dominates the market and wood construction struggles because of existing and/or perceived disadvantages: high planning effort, complex procurement procedures, lack of cost transparency, and higher wages in the regional prefabrication. The tension between the global demand for sustainability and the local desire for identity and affordability will be discussed at hand of presentations about cities that developed new strategies to promote sustainable wood construction.

- 12.20 How to build the 1-Tonne-CO₂-Society?
Prof. Dr. Holger Wallbaum, Uni Göteborg, Göteborg (SWE)
- 12.50 The European model town of timber construction – the 100% timber construction strategy of the city Växjö
Johan Thorsell, Stadtverwaltung Växjö, Växjö (SWE)
- 13.30 Sustainable Urban Development in Munich:
Area of Prinz Eugen barracks
Strategies of the City of Munich
Wolf Opitsch, Department of Urban Planning and Building Regulations, Munich (GER)
Realization of the housing project:
4 buildings, 7 floors, 57 units
Stefan Rapp, Rapp Architects, Ulm (DE)
- 14.15 Discussion and final words
- 14.30 Lunch in the exhibition area
Coffee sponsored by Sihga
- 15.00 End of IHF 2018

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 24th International Wood Construction Conference IHF 2018.

Place of the Conference

Garmisch-Partenkirchen, Congress Centrum
Richard-Strauss-Platz 1, DE-82467 Garmisch-Partenkirchen

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Contact during the event

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Registration

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

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You can also register online:
www.forum-holzbau.com/IHF, section „Anmeldung“

Closing date for registration 27 November 2018

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

Organizers

Aalto University Helsinki, Helsinki (FIN)
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Technische Hochschule Rosenheim, Rosenheim (GER)
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Technical University Munich, Munich (GER)
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5-7 December 2018

Garmisch-Partenkirchen, Congress Centrum

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