



IHD 
SCIENCE BY EXPERTS

SUSTAINABLE RESEARCH TOGETHER

Trägerverein Institut für Holztechnologie Dresden e.V.

The purpose of the non-profit organisation is to promote science in the fields of wood technology, furniture and construction elements and related areas, in particular by promoting basic and applied research into the properties, processing and finishing of wood, wood-based materials and related materials in technological, biological, chemical and physical terms.

The results of the research and the research results of other disciplines relevant to the wood industry, furniture industry and related branches of industries are made available to the wood and wood processing industry and other interested parties from the economy.

The objectives of the association are non-profit and serve the sustainable improvement of product quality as well as standardisation work, research and knowledge transfer. Members can be companies, individuals and institutions.

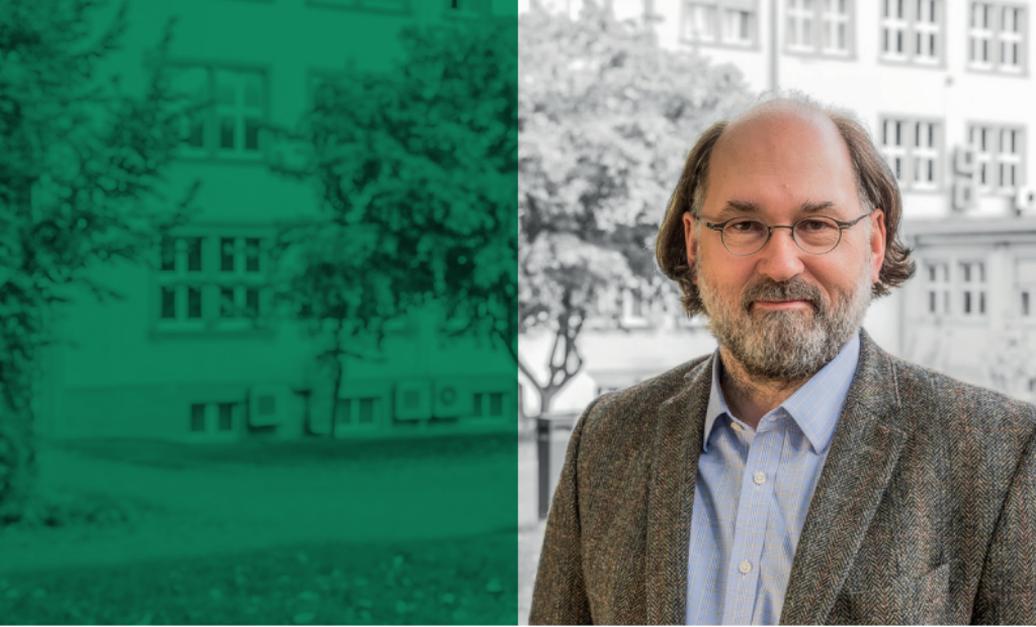
Association members are preferred partners in research, development and standardisation work and have direct access to the research results.

Werden Sie Mitglied des Trägervereins!



www.tihd-dresden.de





The Institute of Wood Technology Dresden (IHD) is an independent research organisation that deals with issues relating to the European wood processing industry. With over 70 years of experience, we utilise our knowledge in a targeted manner for industry, science and society.

Our employees develop energy- and material-efficient and environmentally friendly solutions for technological challenges. As an industrial research centre, we respond promptly to enquiries and communicate with industry on an equal footing. The IHD supports companies in the wood and furniture industry and related sectors with the aim of promoting their economic success. The results of national and international standardisation committees are immediately transferred to the industries.

Our subsidiary, the Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH), offers comprehensive testing, monitoring and certification services. We support you in funded research projects in Saxony, Germany and Europe through contacts with project sponsors and memberships in research networks.

We invite you to familiarise yourself with the diverse possibilities of our institute and look forward to a successful collaboration!

Yours

Prof. Dr. rer. nat. Steffen Tobisch

Head of Institute

Wood research in Dresden

Our Mission

We are an independent, globally active research institute that places industry-related, application-orientated research and development at the centre of its work.

We can look back on 70 years of experience and concentrate on

- Material properties/utilisation,
- Technology/product development,
- Environmental/health protection and
- Resource/energy efficiency.

We work on an interdisciplinary basis and are market- and results-orientated. We utilise the resources available to us for research and development efficiently and in a way that stimulates the industry. Our partners value the expertise and reliability of our employees.

Our vision

Wood is the most versatile renewable raw material.

We are the first point of contact for business, science and society when it comes to the best possible utilisation of wood and other renewable raw materials.

We utilise our knowledge and experience across all sectors in order to be able to react flexibly to future issues. The basis for this are our committed employees, our modern technical equipment, a wide range of topics and co-operation with renowned project partners.





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BIOLOGY



- Molecular Diagnostics and Bioinformatics
- Microbiology, Mycology, Miotechnology
- Material Protection against Fungi, Bacteria and Algae
- Wood Anatomy and Wood Knowledge
- Wood Protection and Wood Modification



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Wood protection · Wood modification ·
Building biology · Insulation materials

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Wood modification · Process engineering ·
Biocomposites



MATERIALS



- Particle Manufacture and Analysis
- Manufacture of Wood-based Materials
- Development and Optimisation of Wood-based Materials
- Testing of Glues and Additives
- Technology Optimisation and Consultancy



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CHEMISTRY

- Emissions from products/ quality assurance
- Bonding Agents/Adhesives
- Natural Oils
- Wood Preservatives
- Resource Modification and Development



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Spectroscopy · Failure analysis



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Emissions from products · VOC/Odour ·
Quality assurance Formaldehyde



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Wood preservatives



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Wood preservatives · Wood modification



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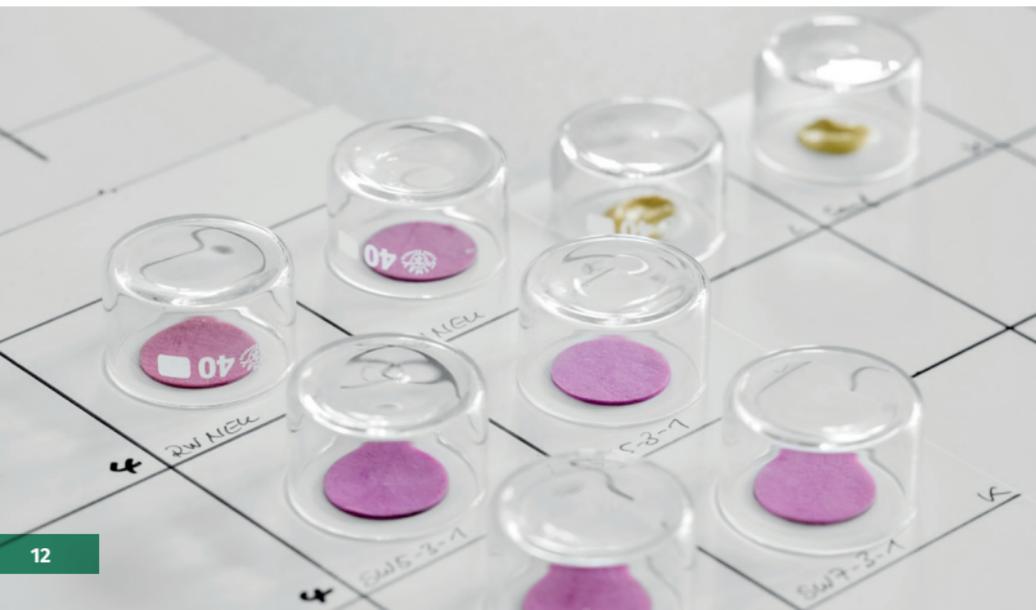
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Organic synthesis · Photochemistry ·
Functional additives



- Surface Functionalisation
- Application Technologies
- Reaction to Fire
- Analytical and Testing Procedures
- Source Material Modification and Development



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PHYSICS

- Modelling and Numerical ;ethods
- Lightweight Construction and Composite Materials
- Determination of Characteristic Values and Ageing Tests
- Proof of Product Quality
- Sustainability and Circular Economy

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Test methods



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FAILURE ANALYSIS

- Damage on Surfaces
- Damage to Materials
- Biological and Structural Damage
- Emission Behaviour
- Damage due to Weather Influences



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Determination of wood species · Structural
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Binders · Molar mass distribution of po-
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COMMUNICATION

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- Strategy and Marketing
- IT and Infrastructure
- Information and Knowledge Management
- Events



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ENTWICKLUNGS- UND PRÜFLABOR HOLZTECHNOLOGIE

- Biological and Chemical Testing
- Mechanical-physical Testing, Furniture and Surface Testing
- Emission Tests of Formaldehyde and VOC
- QMS/EMS/EnMS-Certification
- Notified Test, Surveillance and Certification Body (CARB/EPA/GS)



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CONFERENCES

Hold your conference in a unique atmosphere. Our lecture hall combines new timber construction technology with modern contemporary architecture.

The lecture hall, designed by Reiter Architekten BDA from Dresden, is dominated by the warm radiance of the timber construction and offers ideal conditions for conferences and lectures.

The room's acoustics have been optimised and it boasts a high-quality view of the large plasma screen, which does not require any further darkening. This ensures a pleasant atmosphere for presentations and discussions.

The foyer and catering area provide space for refreshments during breaks. When the weather is warm, the terrace in front of the lecture hall can be used.

Theatre-style seating (without centre aisle): max. 120 seats

Classroom-style seating (without centre aisle): max. 84 seats

Other seating options (such as U-shape) are available on request.



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The room rental includes use of the foyer, catering area, room furnishings and ancillary costs (e.g. cleaning, electricity, water).

Prices exclude statutory VAT.

- Auditorium – full day € 1.700
- Auditorium – half day (up to 4 hrs.) € 950
- Contact partner until 5 pm free of charge
- Contact partner after 5 pm € 50/h

Equipment:

- Tables and chairs
- Cloakroom
- Stage
- Sound system
- Presentation technology
- W-Lan





In signing the contract the Institut für Holztechnologie Dresden was awarded the status of an associated institute of the Technische Universität Dresden (TUD).

The two institutions closely link their research capacities and combine expertise and infrastructure to a new level of scientific collaboration. Since then the IHD assumes additional teaching activities, is responsible for diploma thesis and master's thesis, it educates postgraduates together with TU Dresden and therefore retains young academics for long-term basis.

The collaboration of TUD and IHD focuses in the areas of paper and cellulose chemical analysis, the use of special analytical methods (scanning electron and raman microscopy, porosimetry), the dendrochronology as well as the production, the processing and the testing of composite materials. The IHD and the faculty of environmental sciences cooperate in the technological research of wood-based material, in thermal wood modification and other lignocellulosic materials, in chemical and genetic wood analytics as well as mycological and molecular biological diagnostics of wood-destroying, wood-staining microorganisms and moulds.

Among the joint and complementary researches in biological characteristics, chemical and physical reactions of lignocellulose materials both institutions work closely in material and technological development of using new wood assortments and fibres and novel bio-based materials.



WISSENSCHAFT FORTSCHRIT



Wir schaffen aus Wissen wirtschaftlichen Erfolg. Uns praxisnah und bodenständig forschen. Über interdisziplinären Fähigkeiten sprechen wir. Genau das macht sie zu den besten Unternehmen. Die Zuse-Gemeinschaft verbindet die Erkenntnisse der Wissenschaft mit den Innovationen der deutschen Wirtschaft.

SCIENCE TO THE POINT

The IHD is a founding member of the Zuse Community, the association of Germany's independent, privately operated and organised industrial research facilities. The association that is open to technology and to a wide range of branches of industry incorporates 70 members across Germany. The institutes distinguish themselves by their market-oriented research for SME.

By creating this alliance in 2015, a third column was added to the German researchscape, apart from universities and major research association. In addition to the support of scientific cooperation among the various members, a core task of the Zuse Community consists in the jointly representing the interest of the institutes towards the German federation, the federal states, the industry, other scientific organisations and the public.

The institutes are innovative and capable and have at their disposal highly qualified researchers who are as flexible, practice-oriented and competent as the small and medium-sized industry. As an interface between the industry and research, the member facilities of the Zuse Community are legally and economically independent and belong to neither the major research associations jointly institutionally supported by the federation or the federal states nor industrial businesses.



ZUSE-GEMEINSCHAFT
FORSCHUNG, DIE ANKOMMT.

We are a member





SIG E. V.

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The Sächsische Industrieforschungsgemeinschaft e.V. (SIG – Saxon Industrial Research Community, non-commercial) speaks with one voice for the Saxon non-commercial external industrial research facilities. With the objective to bundle their forces in Saxony. It currently counts 18 members.

With its wide-ranging scope of research in Saxony, the research community strengthens transferoriented and market-preparatory research in the interest of Saxon small and medium-sized industry. On the one hand, its content is focussed on Saxon future industries, such as material, technology and process development, and always oriented on cutting-edge issues of vital social challenges, such as resources efficiency or environmental compatibility.

As a proven link between industry and science, non-profit-making external industrial research facilities contribute a large share to Saxony's excellent reputation in the field of research and development.



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NOTES

August 2025



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