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.

Join the Trägerverein!

www.tihd-dresden.de

The Institut für Holztechnologie Dresden gemeinnützige GmbH (IHD) is an independent, business-oriented research institution in the field of the European wood processing industry. With over 70 years of experience in dealing with the versatile and renewable material wood, we use our knowledge and know-how in a targeted manner for business, science and society.

Committed employees research and develop energy- and material-efficient as well as environmentally and health-friendly solutions for current and future technological challenges to meet the needs of our customers and partners. As an industrial research institution, we are flexible, respond quickly and straightforwardly to our partners' requests and speak the language of business. The IHD sees itself as a close companion to companies in the wood and furniture industry and related sectors; the economic success of our partners is the goal of our research and development work. We immediately communicate the contents and results of our cooperation in national and international standardisation committees to the industries.

As an internationally active service company, our subsidiary, Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH), offers comprehensive services as a testing, monitoring and certification body for the fulfilment of requirements for materials, products and management systems.

Through our contacts with funding organisations and our membership of various research networks, we can successfully guide you to funded research projects in Saxony, Germany and Europe.

Discover the diverse opportunities we offer you and do not hesitate to contact us. We look forward to a successful cooperation with you!

Yours,

Prof. Dr. rer. nat. Steffen Tobisch
Head of Institute

Wood research in Dresden

Our Mission

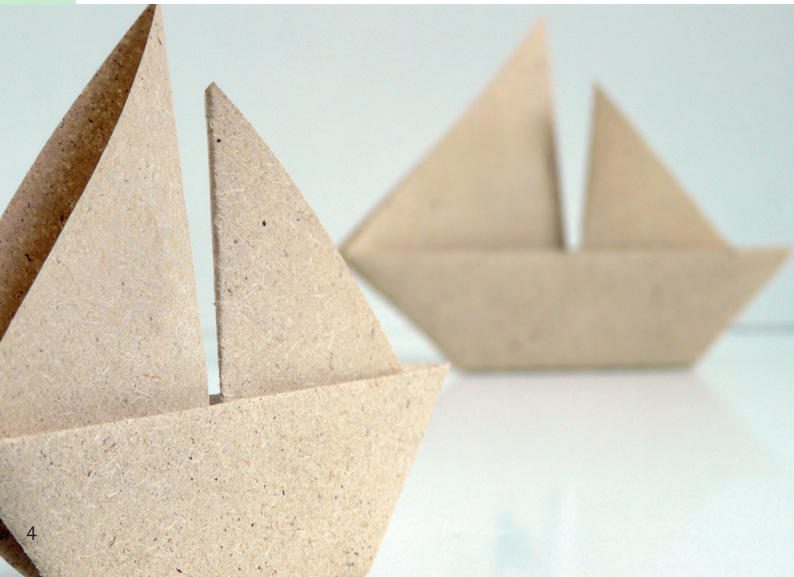
We are an independent research facility acting worldwide and focussing our work on industry-related and application-oriented research and development.
Thereby, we can look back on sixty years of experience and concentrate on

- material properties/the use of material,
- technological/product development,
- environmental/health protection and
- resource/energy efficiency.

We work interdisciplinarily and act in a market-oriented and results-based manner. We efficiently use the funds available to us for research and development and for stimulating the branches of industry. Our partners appreciate the expertise and reliability of our staff.

Our Vision

Wood is the most versatile renewable resource.
We are the first contact partner for the industry, science and the society when it is about the best possible use of wood and other renewable raw materials.
We apply our knowledge and our experience across sectors in order to be able to react flexibly to future issues. This is based on our committed staff, our technical state-of-the-art equipment, a large range of topics and our cooperation with renowned project partners.



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Deputy Head of Institute

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Research coordinator

BIOLOGY

- Molecular diagnostics and bioinformatics
- Microbiology, mycology, biotechnology
- Material protection against fungi, bacteria and algae
- Wood anatomy and wood knowledge
- Wood protection and wood modification

Contact persons

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Head of Departement

Wood protection · Wood modification (TMT) · Building biology · Insulation materials

Prof.
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Wood anatomy · Wood protection · Failure analysis · Microscopy

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DNA analysis · Biological durability · Effectiveness of preservatives

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Material protection · Biocides · Indoor hygiene

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DNA diagnostics · DNA microarrays · Cultivation of fungi

Dipl.-Ing. (BA)
Philipp Flade
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Wood anatomy · Wood drying · Failure analysis · Microscopy

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

Contact persons

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MDF · OSB · PB · SWP · Adhesives · Alternative feedstocks · Monitoring

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OSB · MDF · WPC · Moulded parts · Adhesives · Additives · Monitoring

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PLY · Insulation materials · Light-weight materials · Alternative feedstocks · Monitoring

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MDF · PB · OSB · Technology optimisation · Steam Explosion · Monitoring

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SWP · PB · TMT · Inorganic binders · Particle analysis

Dipl.-Ing.
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Composite materials · Thermoplastic adhesives · Laminated wood products · Additives

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Steam Explosion · Waste wood · Fluorescence microscopy

Dipl.-Ing.
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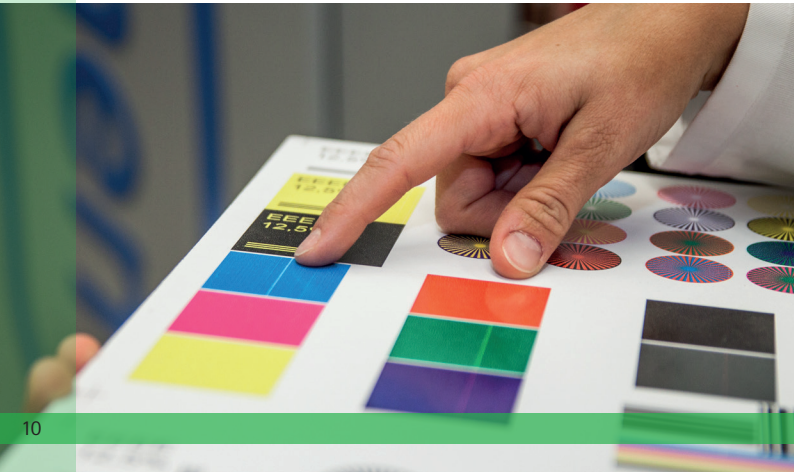
WPC · Creep behaviour · Fluorescence microscopy

SURFACE

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



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Head of Departement

Coating · Functionalisation · Cross-linking · Analytics · Digital printing

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Functionalisation · Analytics

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Powder Coating Process · Coating · Analytics

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Analytics · Functionalisation · Fire Behaviour

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Reaction to fire

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Testing of varnishes, lacquers and wall paints · Simulation of environmental conditions

CHEMISTRY

- Emissions from Products
- Bonding Agents/Adhesives
- Natural Oils
- Wood Preservatives
- Resource Modification and Development

Contact persons

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Wood chemistry · Chemistry of adhesives · Spectroscopy · Failure analysis

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Emissions from products · VOC/Odour · Quality assurance Formaldehyde

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Synthetic binders · Wood chemistry · Wood preservatives

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Wood chemistry · Specific analytics · Wood preservatives · Wood modification

Dr. rer. nat.
Christiane Swaboda
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Natural coating systems · Surface analytics · Ingredients of lacquers, varnishes and paints

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Chemical analytics · Synthetic and natural binding agents · Polymer chemistry

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Formaldehyde

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Organic Synthesis · Electrochemistry · Functional Additives

PHYSICS

- Moisture, Heat and Noise Protection
- Light Weight Construction and Composite Materials
- Components for Means of Transport
- Scaffolding and Formwork
- Windows, Doors and Facades

Contact persons

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Wall, floor, ceiling and facade systems · WBP in transport · Mechanical testing

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Dynamic tests · Thermal and moisture protection · Sensor systems· CFD/FEM

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Acoustics · Special physical testing

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Construction elements · Window/door technology · Window/door testing

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Light weight construction and composites · Flooring systems for warehousing equipment · Scaffoldings and formworks

Dipl.-Ing.
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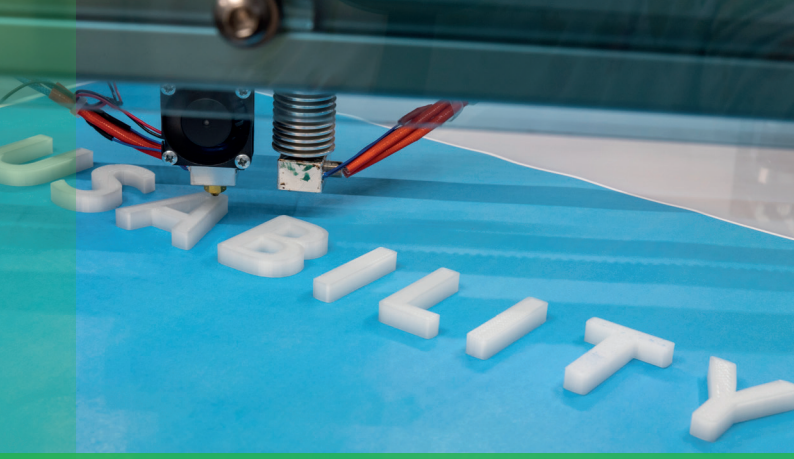
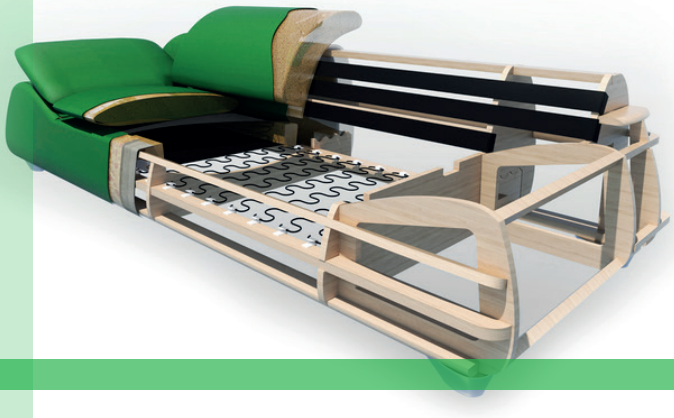
Coating material · Composite constructions · Development of test methods



FURNITURE

- Furniture design and technology
- Manufacturing methods and processes
- Requirement and environment analysis
- Structure optimisation and lightweight design
- Upholstery, mattresses and spring systems



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Design · Product development

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Interior · Usability

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Furniture testing · Test method

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Optimisation · Simulation processes

FAILURE ANALYSIS

- Damage/Failure on Surfaces
- Deficiencies in Materials
- Biological or Structural Damage
- Emissions Behaviour
- Damage due to Weather Effects

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Investigaton/assessment of coatings, bondings, material structure
Production processes · Scanning electron microscopy · Thermal material properties

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Analysis of ingrediants/impurities · Gluing, binders and adhesives
Lacquer/coating formulations · Technological processes and product quality

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Layered structures · Interfacial effects · Scanning electron microscopy (SEM)
Phenomena of ageing · Exposure to light · Discolouration · Structural investigations

Prof.
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Harmful organisms · Mould infestation · Wood preservation
Wood science · Determination of wood species · Structural investigations · Coatings

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Binders · Molar mass distribution of polymer components
Analysis of components and impurities

COMMUNICATION

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

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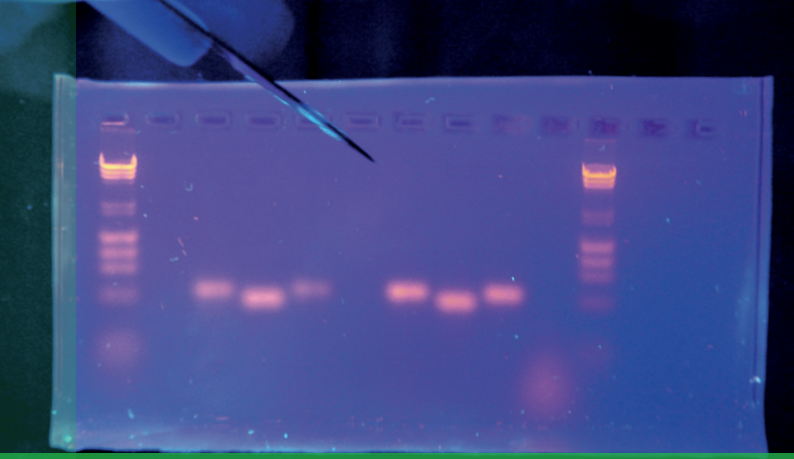
Library



MYKOLABOR DRESDEN www.mykolabor-dresden.de

- Collection of cultures of fungi and bacteria
- DNA Diagnostics (PCR and DNA Array Technology)
- Mycological biotechnology
- Cultivation of Mushrooms
- Indoor Hygiene

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DNA diagnostics · DNA microarray technology · Cultivation of fungi

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Diagnostics of microorganisms · Indoor hygiene · Airborne germ sampling

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Wood protection · Microscopy/Identification of fungi

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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Managing director EPH

Head of Laboratory Surface Testing · Head of GS-Certification Body

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Product Certification Body · CARB/EPA · Formaldehyde

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Head of QMS/EMS/EnMS-Certification

CONFERENCES

Stage your event in a unique atmosphere. Our auditorium combines new structural wood technology with the latest in architectural art.

The auditorium designed by Reiter Architekten BDA from Dresden is dominated by the wood construction irradiating warmth and offers ideal conditions for conferences and presentations.

Acoustically optimised, the room intrigues by the high-quality visibility of the large plasma projection screens that require no dimming, thereby guaranteeing a pleasant atmosphere for presenting and discussing.

The foyer and catering area provide for enough space for refreshments during breaks for 80 people. In summerly weather, the terrace in front of the presentations room can be used. We would be happy to support you in finding the right catering service.

Chair arrangement in rows (no aisle) max. 120 seats

Parliamentary seating (no aisle) max. 84 seats

More seating arrangements, such as U-shape, are possible on request.

Contact persons

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Public relations · Event management

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Event management

The rental price includes the use of the foyers and the catering area as well as room equipment.

Prices include ancillary costs (such as cleaning, power, 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
  € 40/h

Equipment:

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

On request, cooperation partners of the IHD/EPH can be granted special conditions. Please mention that to us.

THE IHD – ASSOCIATED INSTITUTE OF TUD

In signing the contract the Institut fuer Holztechnologie Dresden was awarded the status of an associated institute of the Technische Universitaet 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.

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 assocation 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

SIG e. V.

The Saechsische 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, the SIG was founded in Dresden on 30 April 2014. It currently counts 18 members.

With its wide-ranging scope of research in Saxony, the research community strengthens transfer-oriented 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.

The members of the SIG contribute, to a large extent, to increasing the innovative capacity in the Saxon industrial sector. 1200 people employed and a total turnover of € 106 million (2022) under the umbrella of the SIG illustrate how vital innovations are to small and medium-sized business for their growth.

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.

SIG
Sächsische Industrieforschungsgemeinschaft e.V.

Notes

November 2023

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