

Wood research in Dresden



The purpose of the Trägerverein is to promote science in the fields of wood technology, furniture and construction component manufacturing, as well as related areas.

The objectives of the association as a non-profit organisation are to bring about lasting improvements in product quality and to develop standards research and teaching.

Members can be companies, individuals or institutions. Association

members are preferential partners for research and development, drawing up directives and attendance at trade fairs.

The Trägerverein is a member of AiF (German Federation of Industrial Research Associations).



**Forschungsnetzwerk
Mittelstand**

Join the Trägerverein!
www.tihd-dresden.de

Economic, problem-focused concepts, competent and creative actions, interdisciplinary and flexible work – these are the main characteristics of Institut für Holztechnologie Dresden gemeinnützige GmbH (IHD) as an economically-oriented research institute for the European wood-processing industry.

Building on the technical understanding and economic requirements of our customers and partners, we develop energy and material-efficient solutions for current technological challenges, implement them in industry trends and standards and help preserve the European wood industry's ability to innovate.

Avail of our many years of experience, our technological expertise and our specialisation in materials and product development, and our in-depth knowledge of wood anatomy and biology. Test and evaluate the suitability of innovative surface coatings from the application of natural coatings, to powder-coating, to digital printing technology in our laboratories for your materials. Develop products which meet the strict requirements of health evaluation for construction products with us; develop and design materials, furniture and construction elements for challenging, future-proof applications based on the latest findings of materials science and light-weight construction design. Learn about the state-of-the-art in your industry at our topical specialised colloquia and safeguard your products and your expertise via cooperation with German and European international standards committees.



Close cooperation with the Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) and its biology, chemistry and physics laboratories allows you to present your products on the international market with technical verification and legal security. We are your globally successful partner for your requirements in a testing, monitoring and certification body, notified body, emission measurement body, device safety test body and construction product health evaluation body.

Close contacts to all relevant support institutions allow us to guide you successfully to subsidised research projects in Saxony, Germany and Europe when implementing your future plans.

Learn about our wide range of services and contact us – we look forward to working with you!

Yours,

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

Collaboration

The employees of IHD and EPH offer all companies a wide range of collaboration options e.g.

- Development of new products and processes,
- Reduction of production costs,
- Increase of energy and raw material efficiency,
- Evaluation of the use of alternative materials,
- Increase of quality and
- Minimisation of waste or complaints.

By cooperating with the research departments of the Institute and other research centres, the companies receive the latest knowledge and results.

With over 60 state-funded projects a year, IHD is one of the larger industrial research institutes in Germany. The research projects are tailor-made for the requirements of the industry, which actively cooperates in planning and implementing the projects. IHD supports companies in applying for funding, which reduces the development risks and costs, with advice and assistance at all levels.

IHD is running company-specific developments as part of research contracted by individual companies. The results of the commissioned research are made available to the respective client exclusively for their own use.

Bundling strengths and developing synergies – IHD is an active partner in national and European associations and networks. Not least, IHD's cooperation in multiple national, European and international standards committees allows it to help shape the standards and norms and their harmonisation in the interests of the industry.

Head of Institute

Prof. Dr. rer. nat.

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Authorised signatory

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Managing director EPH

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Deputy Head of Institute

Dr.-Ing., MBA

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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 Department

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

Prof.

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Wood anatomy · Wood protection · Failure analysis · Microscopy

Dipl.-Ing.

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DNA analysis · Biological durability · Effectiveness of preservatives

Dipl.-Biol.

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Material protection · Biocides · Indoor hygiene

Dipl.-Ing. Sc.

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DNA diagnostics · DNA microarrays · Cultivation of fungi

Dipl.-Ing. (BA)

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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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Head of Department

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

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

Dipl.-Ing. (BA)

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

M. Sc.

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SWP · PB · TMT · Inorganic binders · Particle analysis

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Composite materials · Thermoplastic adhesives · Laminated wood products · Additives

M. Sc.

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Steam Explosion · Waste wood · Fluorescence microscopy

Dipl.-Ing.

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WPC · Creep behaviour · Fluorescence microscopy



SURFACE

- Surface Functionalisation and Coating Technologies
- Fire Behaviour
- Electrostatics
- Test Procedures and Analytics
- Resource Modification and Development





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

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Coating · Light protection · Fire Retardation · Analytics

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Powder Coating Process · Coating · Analytics

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Functionalisation · 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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Head of Department

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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

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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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Wood construction · Building construction · Material testing

Dipl.-Phys.

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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

M. Sc.

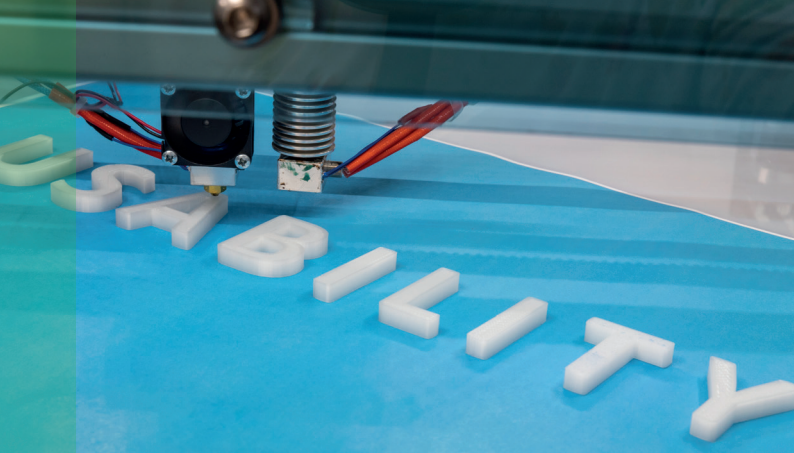
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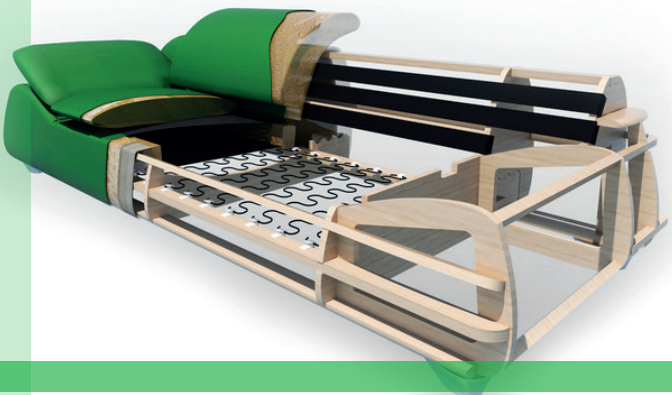


Light weight construction and composites · Flooring systems for warehousing equipment · Scaffoldings and formworks



FURNITURE

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





Contact persons

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Dipl.-Ing.

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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





Contact persons

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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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Emissions and odours in internal space · Causes for fogging

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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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Event management

Dipl.-Bibl. (FH)

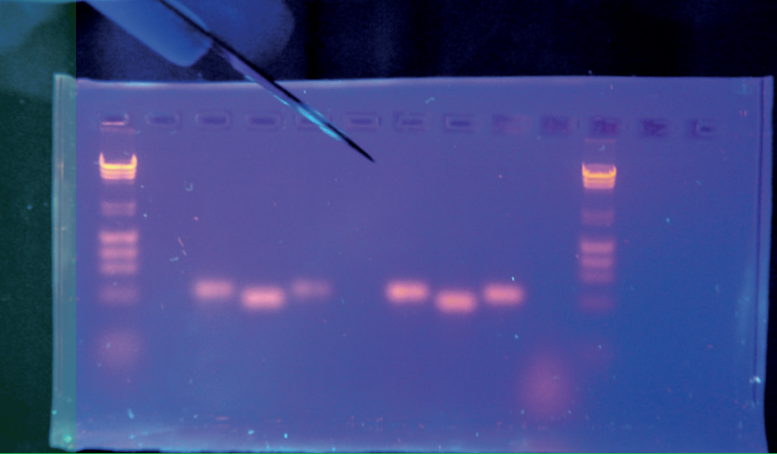
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Library



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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Molecular biology · DNA diagnostics · Biotechnology

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DNA diagnostics · DNA microarray technology · Cultivation of fungi

Dipl.-Biol.

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Diagnostics of microorganisms · Indoor hygiene · Airborne germ sampling

Prof.

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

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Head of Laboratory Furniture Testing

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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 new 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.

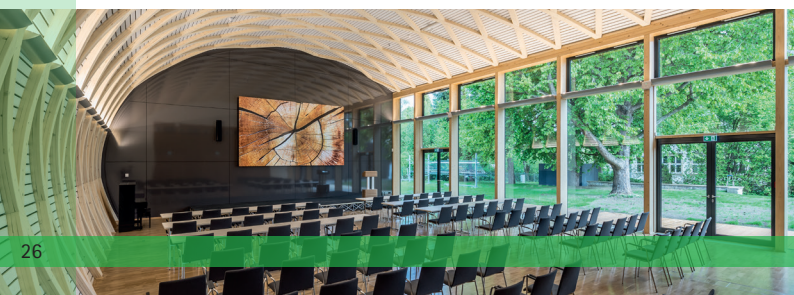
Acoustically optimised, the room intrigues by the high-quality visibility of the large plasma projection screens that require no dimming, thereby guaranteeing a pleasant atmosphere for presenting and discussing.

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.

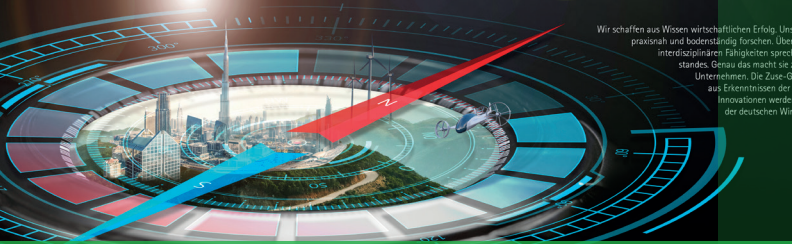
The collaboration of TUD and IHD focuses in the areas of paper and cellulose chemical analysis, the use of special analytical methods (scanning electron and raman microscopy, porosimetry), the dendrochronology as well as the

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.



WISSENSCHAFT FORTSCHRITT



Wir schaffen aus Wissen wirtschaftlichen Erfolg. Uns praxisnah und bodenständig forschen. Über interdisziplinären Fähigkeiten sprechen wir. Genau das macht uns aus. Die Zuse-Gemeinschaft. Die Zuse-Gemeinschaft ist aus Erkenntnissen der Wissenschaft und Innovationen der deutschen Wirtschaft.

SCIENCE TO THE POINT

ZUSE
FORSCHUNG

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





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 19 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. 1160 people employed and a total turnover of € 88 million (2021) 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.

We have joined forces in securing and increasing qualified jobs in Saxony's research and industry.

How to find us:



Dresden International Airport > city rail to Dresden Main Station > tramway 11, towards Zschertnitz, tram stop Zellescher Weg



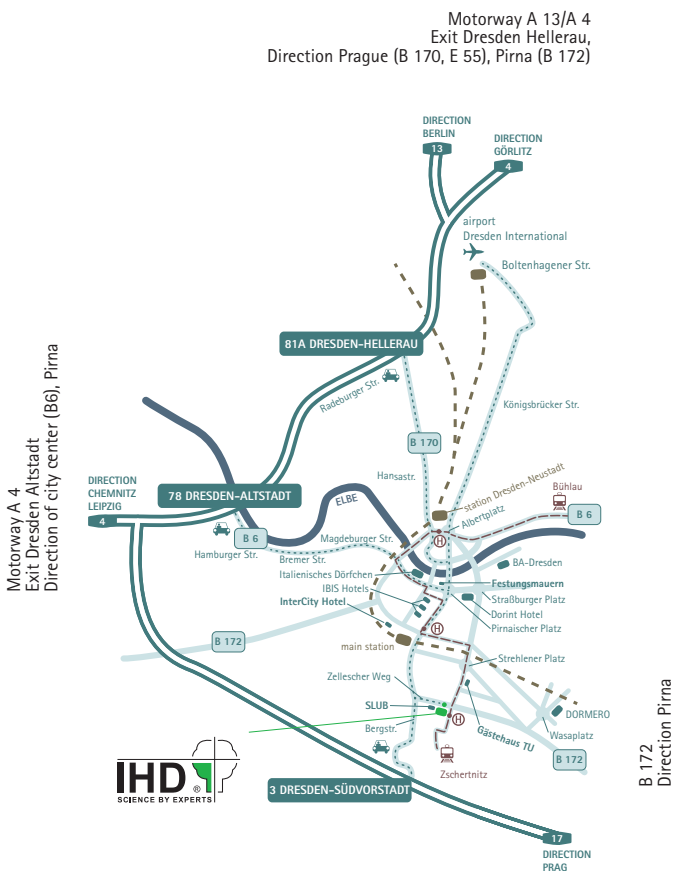
Motorway A 13/A 4, exit Dresden Hellerau > drive south towards Motorway A 4/A 17, exit Dresden Südvorstadt > drive towards the city centre

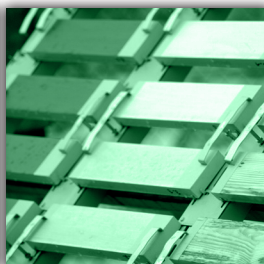


Dresden Main Station/Dresden-Neustadt Station > tramway 11, towards Zschertnitz, tram stop Zellescher Weg



Line 61, bus stop "Staats- und Universitätsbibliothek" (state and university library)





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