

**AACHEN - DRESDEN - DENKENDORF
INTERNATIONAL**

TEXTILE

CONFERENCE

AACHEN,

27. - 28. November 2025

PROGRAM

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- **Sustainable Textiles and Circular Textile Economy**
 - **Bio-based Fibers**
 - **Synthetic High-Performance Fibers**
 - **Artificial Intelligence in the Textile Sector**
 - **Textile Production**
 - **Smart Textiles & Applications**
 - **Textiles for Medicine & Health Care**
 - **Technology Transfer & Start-up Pitches**
 - **Fiber Composites and Lightweight Construction**
 - **Best-Practices**
 - **Functionalization & Finishing**
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PARTNER COUNTRY: FRANCE

REGISTRATION:

<https://www.additc-registration.com/>

AACHEN  DRESDEN  DENKENDORF 

INTERNATIONAL **TEXTILE** CONFERENCE

ABOUT THE TEXTILE CONFERENCE

Dear Colleagues, Experts, Friends and Students,
We cordially invite you to join the Aachen-Dresden-Denkendorf International Textile Conference, which will take place on November 27-28, 2025 in Aachen (Aix-la-Chapelle). The event will be held entirely and exclusively in English.

Registration

CongressCheck GmbH is taking care of the registrations for this conference. Please register online via the conference website.

<https://www.additc-registration.com/>

As a confirmation of registration you will receive an invoice from CongressCheck. Name badges will be available onsite at the conference office.

Conference Dinner

Unfortunately, the originally planned location for the conference dinner is not available this year, so we have to move to the ballroom in the Old Spa House. Space is very limited here, which is why we can only offer 190 seats for the dinner. Seats will be allocated chronologically according to ticket purchase. Once all 190 seats have been allocated, it will no longer be possible to attend the conference dinner.

The festive evening with dinner and accompanying program will take place on 27.11. at 19:30 (admission 19:00) in the ballroom of the "Altes Kurhaus Aachen". Address: Kurhausstraße 1, 52058 Aachen

We are looking forward to meeting you in Aachen!

Prof. Dr. A. Herrmann
for the organizers of
the Aachen area

Prof. Dr. C. Cherif
for the organizers of
the Dresden area

Prof. Dr. G. T. Gresser
for the organizers of
the Stuttgart area



AACHEN DRESDEN DENKENDORF
INTERNATIONAL **TEXTILE** CONFERENCE

OVERVIEW

Thursday, November 27, 2025

09:00 - 09:20		Opening Ceremony	
09:25 - 10:00		PLENARY Artificial Intelligence in the Textile Sector	
10:00 - 10:35		PLENARY Textiles for Medicine & Health Care	
10:35 - 11:05		Award Ceremony of the Walter Reiners Foundation	
11:05 - 11:30		Poster Presentations & Coffee Break	
11:30 - 12:40		PARALLEL SESSIONS	
Textiles for Medicine & Health Care	Textile Production	Functionalization & Finishing	
12:40 - 14:00		Lunch & Networking	
14:00 - 15:30		PARALLEL SESSIONS	
Textiles for Medicine & Health Care	Textile Production	Transfer Session	
	<u>Post flash Session</u>	<u>Startup Pitches</u>	
15:30 - 16:00		Poster Presentations & Coffee Break	
16:00 - 17:30		PARALLEL SESSIONS	
Synthetic High- Performance Fibers	AI in the Textile Sector	Best Practices (Cooperations Industry & Academia)	
19:30		CONFERENCE DINNER (Ballsaal; altes Kurhaus)	

OVERVIEW

Friday, November 28, 2025

09:00 - 09:20	Welcome Back / Best-Poster-Awards		
09:20 - 09:45	Representatives from France		
09:45 - 10:15	PLENARY		
	The EU Ecodesign Regulation in Political Context		
10:15 - 10:45	PLENARY		
	Circular Economy and Textile Recycling		
10:45 - 11:15	Coffee Break		
11:15 - 12:05	Panel Discussion		
	Durable or Disposable? Fashion's Sustainability Dilemma		
12:10 - 13:30	PARALLEL SESSIONS		
Fibre Composites & Lightweights Contructions	Sustainable Textiles & Circular Economy	Biobased Fibres	
13:30 - 14:30	Lunch & Networking		
14:30 - 15:50	PARALLEL SESSIONS		
Smart Textiles & Applications	Sustainable Textiles & Circular Economy	Biobased Fibres	
15:50 - 16:00	Closing Remarks		
K1 Hall	EUROPASAAL	BRÜSSELSAAL	

SCHEDULE											
THURSDAY, NOVEMBER 27, 2025											
K1 Hall Upstairs on the first floor				EUROPASAAL Main Hall				Brüsselsaal Lecture Hall on the ground floor			
				09:00 Prof. Dr. Andreas Herrmann & Partners DWI - Leibniz-Institute for Interactive Materials Opening & Welcome							
				09:20 Prof. Dr. Ingo Rollwagen Plenary Hochschule Fresenius, Department of Design Data- and AI enabled textile innovation dynamics till 2035							
				10:35 Associate Professor Dr. Jun Chen Plenary University of California, Department of Bioengineering Textile Innovations for the Medical and Healthcare Sectors							
				10:35 Award Ceremony of the Walter Reiners Foundation							
11:00 Coffee Break & Poster Exhibition				11:00 Coffee Break & Poster Exhibition				11:00 Coffee Break & Poster Exhibition			
<u>Textiles for Medicine & Health Care</u>				<u>TEXTILE PRODUCTION</u>				<u>Functionalization & Finishing</u>			
11:30 Prof. Dr. Christine Radtke Keynote Medical University of Vienna Innovations for the medical and healthcare sectors				11:30 Dr.-Ing. Frederik Cloppenburg Keynote TWE Group From Shop Floor to Smart Factory: Key Success Factors for the Digital Transformation in Textile Production				11:30 Anna Björkquist Swedish School of Textiles Optimizing Algae-Based Dyes for Textile Applications: From Lab-Scale Trials to Industrial Relevance			
12:00 Lena Berglin University of Borås A Washable Textile Solution for Urinary Incontinence: Bridging the Gap Between Reusable and Disposable Absorbent Products.				12:00 Gulsah Gok Emirali Tekstil Konfeksiyon Sanayi ve Ticaret A.S. Use of Pre-Consumed Cut-and-Sew Wastes as a Sustainable Screen Printing Colorant				11:50 Kevin Braun Molecular Plasma Group SA Molecular Plasma – Sustainable Functionalization of Textiles Through Organic Nanocoatings			
12:20 Benedetta Isella Fibrothelium GmbH Bioresorbable Silk Fibroin Membranes with and without Magnesium Reinforcement: A Promising Alternative for Guided Bone Regeneration				12:20 Rüdiger Hartert Teijin Aramid GmbH Textile Processes for ballistic and stab-protective body-armor				12:10 Mehmet Orhan Bursa Uludağ University Cotton-Based Surfaces With Halochromic (pH-Sensitive) Properties via Anthocyanin Incorporation			
12:40 Lunch Break				12:40 Lunch Break				12:30 Thomas Mutschler Hochschule Niederrhein, Institut für Textil und Bekleidung Production of Functionalised Rope and Net Structures from Twisted Hemp Bast			
<u>Textiles for Medicine & Health Care</u>				<u>TEXTILE PRODUCTION</u>				<u>Transfer Session</u>			
14:00 Henk Lambrecht Qmatex BV Development of an innovative Narrow-Shuttle-Weaving Machine for Biomimetic Cardiovascular Applications				14:00 Al Mamun HansMinke GmbH & Co. KG From Waste to Yarn: Processing Recycled PA 6 for Circular Knitted Technical Textiles				14:00 Priv.-Doz. Dr.-Ing. Yves-Simon Gloy Keynote ADOTC GmbH Another Dimension Of Textile Configuration			
14:20 Gökçe Sakmar Istanbul Technical University Proactive Pressure Ulcer Prevention Using a Sensor-Embedded Mattress Pad with a Targeted Electrical Stimulation System				14:20 Silke Huertos-Lopez Saurer Group Processing Post Consumer Fibres by Developing a Control Loop for Rotor Spinning				14:30 Alexander Grüner emtec Electronic GmbH Novel device for objective multimodal sensing evaluation of textiles			
14:40 Sofien Bouzouita FIBROLINE Powder Impregnation Technologies for Advanced Medical Devices				14:40 Josef Klingele Dornier T.b.a.				14:50 Anjum Saleem Technikum Laubholz GmbH Processing of Endless WDBSD TX® Cellulosic Fibers Using Ionic Liquid Technology			
15:00 Meritxell Martí INTEXTER-UPC Development of an Artificial Skin Model Based on PLA Nanofibers with Lanolin and Collagen-Loaded Liposomes				15:00 Poster-Flash-Session				15:10 <u>Start-up Pitches</u> Marie Weedermann (FAIBRICS GmbH) Rony Khan (Re-Root Tex Solution) Till Hülsmann (HairSense)			
15:30 Coffee Break & Poster Exhibition				15:30 Coffee Break & Poster Exhibition				15:30 Coffee Break & Poster Exhibition			
<u>Synthetic High- Performance Fibers</u>				<u>AI in the Textile Sector</u>				<u>Best Practices (Cooperations Industry & Academia)</u>			
16:00 Dr. Paolo Bomben Keynote Advanced Hydrocarbons at Alberta Innovates Carbon Fibre from Alberta Heavy Oil Asphaltenes: Creating Value & Emissions Reduction				16:00 Jörg Kroschinski Keynote Siemens AG Artificial Intelligence: Truth and Error				16:00 Dr. Thomas Bauer & Dr. Christoph Schopp Keynote DIENES Apparatebau GmbH; FH Aachen – University of Applied Sciences Energy-Efficient Furnace based on Microwave Plasma Technology for Stabilisation and Carbonisation of PAN			
16:30 Dr. Kerim Kılınc Polyteks Tekstil San. Araş. ve Eğit. A.Ş. Enhancing Mechanical and Thermal Properties of Sustainable Bicomponent Yarns for Green Textile Applications				16:30 Manuel Etmüller Fraunhofer Institute for Industrial Mathematics ITWM Informed Machine Learning for Enhanced Melt Spinning Processes				16:30 Maria L. Catarino CITEVE, Centro Tecnológico das Indústrias Têxteis e do Vestuário de Portugal Minimizing the Environmental Impact of Textile Finishing: Low-Temperature Alternatives to Conventional Bleaching and Soaping			
16:50 Sudhanshu Maurya Indian Institute of Technology Delhi Effect of Structural Parameter on Thermal Protective Performance of Meta-Aramid based Thermal Protective Fabric				16:50 Joachim Rees Multi-Plot Europe GmbH Digital Textile Printing Meets Artificial Intelligence – Transforming the Textile Industrie				16:50 Felix Liebhold & Dr. Kristina Klinkhammer Textechno H. Stein GmbH & Co. KG; Niederrhein University of Applied Sciences Utilizing CLIF for Analysing Mechanically Recycled Material of Knitwear for Spinning of New Yarns			
17:10 Leonor Cunha Citeve - Technological Centre for the Textile and Clothing Industries of Portugal Development Of Recycled Aramid Fiber Based Aerogel For Thermal Management Textiles				17:10 Lutz Gerold PPT GmbH & Co. KG Objective pilling grading with AI – a portable laboratory system				17:10 Jennifer Kennes TFI – Institut für Boden- und Raumsysteme an der RWTH Aachen Next-Generation Primary Backings: Enabling High Pile Fixation for Fully Recyclable Carpets			

SCHEDULE

FRIDAY, NOVEMBER 28, 2025

K1 Hall
Upstairs on the first floor

EUROPASAAL
Main Hall

Brüsselsaal
Lecture Hall on the ground floor

09:00 **Best Poster Awards + Photos**

09:20 **The French Textile Industry**
Representatives of Partnercountry France

09:45 **Dr. Henning Wins**
Federal Ministry for Economic Affairs and Energy
The EU Ecodesign Regulation in a political context

Plenary

10:15 **T.b.a.**
T.b.a.
Textile Recycling

Plenary

10:45 **Coffee Break**

10:45 **Coffee Break**

10:45 **Coffee Break**

Fiber Composites and Lightweight Constructions

Sustainable Textiles & Circular Textile Economy

Biobased Fibres

12:10 **Prof. Johannes Braumann** **Keynote**
University for Arts and Design Linz
Robotics for Domain Experts: Defining Non-Standard Robotic Processes in Fiber Composites and Beyond

12:40 **Dr.-Ing. Christian Weimer** **Keynote**
Airbus - Central Research and Technology (CRT)
T.b.a.

13:10 **Soumya Chowdhury**
Hochschule Niederrhein University of Applied Sciences
Tailored Weave Architectures for Impact-Resilient 3D Woven Fabric-reinforced Composites: Enabling Lightweight Structural Solutions for Advanced Engineering Applications

13:20 **Lunch Break**

12:10 **Dr.-Ing. Stephan Kabasci** **Keynote**
Fraunhofer UMSICHT
The Role of Circular Economy in the Textile Industry

12:40 **Pavan Kumar Manvi**
Avantium Renewable Polymers B.V.
Releaf for Textile Industry: A Journey to Biobased and Sustainable Future

13:00 **Thomas Pötz**
3T Industry InkJet Consulting
Denimprint - Sustainable Coloring for Denim Products Through The Use Of Digital Printing Processes

13:20 **Lunch Break**

12:10 **Prof. Dr. Kai Liu** **Keynote**
Department of Chemistry, Tsinghua University
Presentation on Biobased Fibres – t.b.a.

12:40 **Rui P. C. L. Sousa**
Centre for Textile Science and Technology (2C2T), University of Minho
Chitosan/PCL Electrospun Membranes for Textile Wastewater Treatment

13:00 **Boris Marx**
Faserinstitut Bremen e.V., MAPEX Center for Materials and Processes
Development of Bio-based, Elastic Mono- and Multifilaments

13:20 **Lunch Break**

Smart Textiles & Applications

Sustainable Textiles & Circular Textile Economy

Biobased Fibres

14:30 **Miguel Rocha**
CeNTI, Centre for Nanotechnology and Advanced Materials
Industrialization of Smart Blankets with Integrated Intelligent Weaved Heating Systems

14:50 **Wiktor Śmiechowski**
Institute of Architecture of Textiles, Lodz University of Technology
Effect of Embroidery Fill with Electroconductive Yarn on Resistance Measurement

15:10 **Alan Michalczyk**
Institute of Architecture of Textiles, Lodz University of Technology
Modelling and 3D Approximation of Embroidery Fill Structures with Electroconductive Yarn for Electromagnetic Applications

15:30 **Hellen van Rees**
Saxion UAS Pantón University of Twente
Patient Journey Mapping as a Tool in Wearable Development for Health and Care Applications

14:30 **Rémi Tilkin**
Centexbel
High Value Solutions in Textile Recycling for Closing the Loop

14:50 **Juliane Wipperfürth**
Institut für Textiltechnik und Lehrstuhl für Textilmaschinenbau, RWTH Aachen University
Making Collagen Fibres Truly Sustainable – Wet-Spinning of Collagen Using Deep Eutectic Solvents

15:10 **María Duque Fernández**
Resortecs
Unlocking Circularity in Textiles: Automated Disassembly for Scalable Recycling

15:30 **Leonard Both**
matterr GmbH Technische Universität Braunschweig
Depolymerising the Problem: How matterr Closes the Loop for Polyester

15:50 **Closing Remarks**

14:30 **Naveen Kumar Balakrishnan**
Center for Biohybrid and Medical Systems (CBMS)
Enhancing crystallization of PLA Fibers: Process and Colorant-

14:50 **Sujaan Kaushik**
Department of Textile and Fibre Engineering, Indian Institute of Technology
Ultralight and robust biobased composite aerogel coated fabrics having high insulation properties for protection against

15:10 **Louisa Bonten**
Deutsche Institute für Textil- und Fasertechnik Denkendorf
Development of Piezoelectric PLA Fibers for Medical Technology Applications

15:30 **Sabina Dann**
Institut für Textiltechnik der RWTH Aachen University
Glucanes4Tex - Fiber and Textile Production from Bio-based Engineered Polysaccharide

PROGRAM COMMITTEE

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ADDITIONAL INFORMATION

Conference Website

<https://www.aachen-dresden-denkendorf.de/en/itc>

Registration: <https://www.additc-registration.com/>

Poster Flash Session & Poster Exhibition

The Poster Flash Session gives presenters the chance to introduce their posters on the main stage in a short and engaging format, offering a quick overview of their work to spark interest.

Alongside this, there will be a dedicated poster exhibition showcasing a wide range of research topics and innovations. We encourage all attendees to visit the poster exhibition during the coffee breaks on the first day (November 27), which are specifically set aside for this purpose. Poster presenters are expected to be available at their posters during these times to discuss their work and answer questions.

A jury will evaluate the contributions and select the winners of the Best Poster Awards, which will be announced on the main stage on November 28. Conference participation of at least one poster author is mandatory.

Exhibition

The exhibition brings together participants from industry, academia, and research who present their latest products and developments. It's a great opportunity to network, exchange ideas, and explore potential collaborations. The event is also ideal for those looking for new career opportunities or interested in connecting with future employers.

CONTACT AND JOURNEY

Organization

DWI - Leibniz-Institut für Interaktive Materialien e.V., Aachen

Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik (ITM), TU Dresden

Deutsche Institute für Textil- und Faserforschung Denkendorf (DITF)

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