

**AACHEN - DRESDEN - DENKENDORF
INTERNATIONAL**

TEXTILE

CONFERENCE

AACHEN,

27. - 28. November 2025

PROGRAM

-
- **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**
-

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 (Ballsaal, altes Kurhaus Aachen). Space is very limited here, which is why we can only offer 200 seats for the dinner. Seats will be allocated chronologically according to ticket purchase. Once all seats have been allocated, it will no longer be possible to book further tickets for 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

OVERVIEW

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 - 11:00		Award Ceremony of the Walter Reiners Foundation	
11:00 - 11:30		Poster Presentations & Coffee Break	
11:30 - 12:40		PARALLEL SESSIONS	
Textiles for Medicine & Health Care	Textile Production	Transfer Session	
12:40 - 14:00		Lunch & Networking	
14:00 - 15:30		PARALLEL SESSIONS	
Textiles for Medicine & Health Care	Textile Production <u>Poster flash Session</u>	Functionalization & Finishing	
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)	

09:00 - 09:20	Welcome Back / Best-Poster-Awards	
09:20 - 09:40	Keynote on Fibre Recycling	
09:50 - 10:25	PLENARY The EU Ecodesign Regulation in Political Context	
10:25 - 10:45	KEYNOTE Textiles in a Circular, Digital Transition	
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 Constructions	Sustainable Textiles & Circular Economy	Biobased Fibres
13:20 - 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
DWI - Leibniz-Institute for Interactive Materials
Opening & Welcome
- 09:10

Karine Wallois
Business Manager of Clubtex
- 09:20

Prof. Dr. Ingo Rollwagen
Hochschule Fresenius, Department of Design
Data- and AI Enabled Textile Innovation Dynamics till 2035

Plenary
- 10:00

Associate Professor Dr. Jun Chen
University of California, Department of Bioengineering
Textile Innovations for the Medical and Healthcare Sectors

Plenary
- 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

Textiles for Medicine & Health Care		
11:30	Dr. Timo Schmeltzpfenning <i>Sporlastic GmbH & Co. KG</i> Sustainable Medical Textiles: From Concept to Clinical Reality	Keynote
12:00	Lena Berglin <i>University of Borås</i> A Washable Textile Solution for Urinary Incontinence: Bridging the Gap Between Reusable and Disposable Absorbent Products.	
12:20	Dr. Benedetta Isella <i>Fibrothellium GmbH</i> Bioresorbable Silk Fibroin Membranes with and without Magnesium Reinforcement: A Promising Alternative for Guided Bone Regeneration	

TEXTILE PRODUCTION		
11:30	Dr.-Ing. Frederik Cloppenburg <i>TWE Group</i> From Shop Floor to Smart Factory: Key Success Factors for the Digital Transformation in Textile Production	Keynote
12:00	Gülşah Gök <i>Emirali Tekstil Konfeksiyon Sanayi ve Ticaret A.Ş.</i> Use of Pre-Consumed Cut-and-Sew Wastes as a Sustainable Screen Printing Colorant	
12:20	Rüdiger Hartert <i>Teijin Aramid GmbH</i> Textile Processes for Ballistic and Stab-Protective Body-Armor	

Transfer Session		
11:30	Priv.-Doz. Dr.-Ing. Yves-Simon Gloy <i>ADOTC GmbH</i> Another Dimension of Textile Configuration	Keynote
12:00	Alexander Grüner <i>emtec Electronic GmbH</i> Novel Device for Objective Multimodal Sensing Evaluation of Textiles	
12:20	Dr. Anjum Saleem <i>Technikum Laubholz GmbH</i> Processing of Endless WDBSD TX® Cellulosic Fibers Using Ionic Liquid Technology	

12:40

Lunch Break

12:40

Lunch Break

12:40

Lunch Break

Textiles for Medicine & Health Care		
14:00	Henk Lambrecht <i>Qmatex BV</i> Development of an innovative Narrow-Shuttle-Weaving Machine for Biomimetic Cardiovascular Applications	
14:20	Dr. Rémi Tilkin <i>Centexbel</i> Charged to Heal: Spinning the Future of Medical Textiles	
14:40	Dr. Sofien Bouzouita <i>FIBROLINE</i> Powder Impregnation Technologies for Advanced Medical Devices	
15:00	Dr. Meritxell Martí <i>INTEXTER-UPC</i> Development of an Artificial Skin Model Based on PLA Nanofibers with Lanolin and Collagen-Loaded Liposomes	

TEXTILE PRODUCTION		
14:00	Al Mamun <i>HansMinke GmbH & Co. KG</i> From Waste to Yarn: Processing Recycled PA 6 for Circular Knitted Technical Textiles	
14:20	Silke Huertos-Lopez <i>Saurer Group</i> Processing Post Consumer Fibres by Developing a Control Loop for Rotor Spinning	
14:40	Pascal Rossignol & Dr. Josef Klingele <i>CLM TRILAM & Lindauer DORNIER GmbH</i> Racing with Engineered Sustainable Laminates - TRILAM Sailcloths made on DORNIER Weaving Machines	
15:00	Poster-Flash-Session	

Functionalization & Finishing		
14:00	Anna Björkquist <i>Swedish School of Textiles</i> Optimizing Algae-Based Dyes for Textile Applications: From Lab-Scale Trials to Industrial Relevance	
14:20	Kevin Braun <i>Molecular Plasma Group SA</i> Molecular Plasma – Sustainable Functionalization of Textiles Through Organic Nanocoatings	
14:40	Dr. Mehmet Orhan <i>Bursa Uludag University</i> Cotton-Based Surfaces With Halochromic (pH-Sensitive) Properties via Anthocyanin Incorporation	
15:00	Dr.-Ing. Thomas Mutschler & Marc Küperkoch <i>Hochschule Niederrhein, Institut für Textil und Bekleidung</i> Production of Functionalised Rope and Net Structures from Twisted Hemp Bast	

15:30

Coffee Break & Poster Exhibition

15:30

Coffee Break & Poster Exhibition

15:30

Coffee Break & Poster Exhibition

Synthetic High- Performance Fibers		
16:00	Dr. Paolo Bomben <i>Advanced Hydrocarbons at Alberta Innovates</i> Carbon Fibre from Alberta Heavy Oil Asphaltenes: Creating Value & Emissions Reduction	Keynote
16:30	Dr. Kerim Kılınc <i>Polyteks Tekstil San. Araş. ve Eğt. A.Ş.</i> Enhancing Mechanical and Thermal Properties of Sustainable Bicomponent Yarns for Green Textile Applications	
16:50	Dicle Ayça Ertek Kiraz <i>Marmara University Istanbul</i> Impact of Fiber Cross-Section Geometry on Thermal Comfort Characteristics of Knitted Fabrics	
17:10	Leonor Cunha <i>Citeve - Technological Centre for the Textile and Clothing Industries of Portugal</i> Development Of Recycled Aramid Fiber Based Aerogel For Thermal Management Textiles	

AI in the Textile Sector		
16:00	Jörg Kroschinski <i>Siemens AG</i> Artificial Intelligence: Truth and Error	Keynote
16:30	Dr. Manuel Ettmüller <i>Fraunhofer Institute for Industrial Mathematics ITWM</i> Informed Machine Learning for Enhanced Melt Spinning Processes	
16:50	Joachim Rees <i>Multi-Plot Europe GmbH</i> Digital Textile Printing Meets Artificial Intelligence – Transforming the Textile Industrie	
17:10	Lutz Gerold <i>PPT GmbH & Co. KG</i> Objective Pilling Grading with AI – a Portable Laboratory System	

Best Practices (Cooperations Industry & Academia)		
16:00	Dr. Thomas Bauer, Dr. Christoph Schopp & Dr. Philipp Schuster <i>DIENES Apparatebau GmbH; FH Aachen – University of Applied Sciences; Ulm University</i> Energy-Efficient Furnace based on Microwave Plasma Technology for Stabilisation and Carbonisation of PAN	Keynote
16:30	Maria L. Catarino <i>CITEVE, Centro Tecnológico das Indústrias Têxteis e do Vestuário de Portugal</i> Minimizing the Environmental Impact of Textile Finishing: Low-Temperature Alternatives to Conventional Bleaching and Soaping	
16:50	Felix Liebhold & Dr. Kristina Klinkhammer <i>Textechno H. Stein GmbH & Co. KG; Niederrhein University of Applied Sciences</i> Utilizing CLIF for Analysing Mechanically Recycled Material of Knitwear for Spinning of New Yarns	
17:10	Diederik Cuyllits & Marc Küperkoch <i>Culimeta Textilglas-Technologie GmbH&Co.KG, Hochschule Niederrhein</i> Hemp Bast as a Possible Substitution for Glass Fibers in Liners for Trenchless Pipe Rehabilitation	

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

Amon Krichel

Technische Hochschule Augsburg

DATI Pilot Initiative CircTex
- 09:40

Dr. Lukas Lechthaler

Trützschler Group SE

From Torn Fibre to Yarn: How Material Classification influences the Recycling Process Route
- 09:50

Dr. Henning Wins

Federal Ministry for Economic Affairs and Energy

The EU Ecodesign Regulation in a Political Context

Plenary
- 10:25

Jasper Martin

CIRMAR B.V.

Textiles in a Circular, Digital Transition

Keynote

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

University for Arts and Design Linz

Robotics for Domain Experts: Defining Non-Standard Robotic Processes in Fiber Composites and Beyond

Keynote
- 12:40

Akilan Mathiazhagan

Brandenburg Technical University Cottbus-Senftenberg

Bio-Inspired Architectures in Fiber Composites Using Triply Periodic Minimal Surface (TPMS) and Periodic Lattice Design
- 13:00

Dr.-Ing. Soumya Chowdhury

Hochschule Niederrhein University of Applied Sciences

Tailored Weave Architectures for Impact-Resilient 3D Woven Fabric-reinforced Composites

- 11:15

Durable or Disposable? Fashion's Sustainability Dilemma

Prof. Dr. Maike Rabe (Hochschule Niederrhein)

Dr. Henning Wins (Bundesministerium für Wirtschaft und Energie)

Dr. Vincenzo Gentile (European Commission)

Panel Discussion
- 12:10

Dr.-Ing. Stephan Kabasci

Fraunhofer UMSICHT

The Role of Circular Economy in the Textile Industry

Keynote
- 12:40

Pavan Kumar Manvi

Avantium Renewable Polymers B.V.

Releaf for Textile Industry: A Journey to Biobased and Sustainable Future
- 13:00

Thomas Pötzt

3T Industry InkJet Consulting

Denimprint - Sustainable Coloring for Denim Products Through The Use Of Digital Printing Processes

- 12:10

Manuel Vieira

CeNTI (Centre for Nanotechnology and Smart Materials)

Minimizing the Environmental Impact of Textile Finishing: Low-Temperature Alternatives to Conventional Bleaching and Soaping
- 12:40

Dr. 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

Dr. Boris Marx

Faserinstitut Bremen e.V., MAPEX Center for Materials and Processes

Development of Bio-based, Elastic Mono- and Multifilaments

13:20

Lunch Break

13:20

Lunch Break

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

Dr. 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

- 14:30

Dr. Naveen Kumar Balakrishnan

Center for Biohybrid and Medical Systems (CBMS)

Enhancing crystallization of PLA Fibers: Process and Colorant-Based Strategies for Sustainable Textile Production
- 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 Cold Weather
- 15:10

Louisa Bonten

Deutsche Institute für Textil- und Faserforschung 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

15:50

Closing Remarks

PROGRAM COMMITTEE

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Fachbereich Textil- und
Bekleidungstechnik der
Hochschule Nieder-
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Umwelt: DBU

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Hochschule Nieder-
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bach

Harald Weber
VDMA e.V., Fachver-
band Textilmaschinen,
Frankfurt am Main

Lutz Walter
ETP - The European
Technology Platform for
the Future of Textiles
and Clothing, Brüssel

Jochen Wirsching
Freudenberg SE,
Weinheim

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IPF, Leibniz-Institut
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Dresden e.V.

Fabian Schreiber
TITV, Textilforschungs-
institut Thüringen-Vogt-
land e.V.; Greiz

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)

Contact

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