

**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, taking place on November 27–28, 2025, in Aachen (Aix-la-Chapelle). The entire event will be conducted exclusively in English.

Registration

CongressCheck GmbH is handling the registrations for this conference. Please register online via the conference website: <https://www.additc-registration>

As confirmation of your 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 there is very limited, which is why we can only offer 200 seats for the dinner. Seats will be allocated chronologically according to the time of ticket purchase. Once all seats have been allocated, it will no longer be possible to book additional conference dinner tickets.

The conference dinner will take place on 27 November at 19:45 (admission from 19:00) in the ballroom of the “Altes Kurhaus Aachen”. Address: Kurhausstraße 1, 52058 Aachen.

We are delighted to welcome you to 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 Data- and AI Enabled Textile Innovation Dynamics till 2035	
10:00 - 10:35		PLENARY Smart Textiles for Personalized 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 Poster Flash Session	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)
Admission 19:00	CONFERENCE DINNER (Ballsaal; altes Kurhaus)		

Admission to dinner only with a valid ticket (must be booked during registration)

OVERVIEW

Friday, November 28, 2025

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 & Lightweight Contructions		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
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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

Prof. Stefan Jockenhövel
Institute of Applied Medical Engineering, RWTH Aachen University
Learning from Nature - Life-like Transformative Materials for Biohybrid Implants

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>Fibrothelium 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	Prof. Yordan Kyosev <i>TU Dresden, ITM</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	Yuri Corneille <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	Ang Zaho <i>RWTH Aachen University</i> <i>Biofunctional Polyelectrolyte Fibres Through a Water-Based Spinning Process</i>	
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 Cuylits & 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
- 09:30 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 Frans Beckers
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)
Developing Recyclable Cellulose Self-reinforced Composites for Next-generation Packaging
- 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. Holger Fischer
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 Dr. Tim Hiller
Deutsche Institute für Textil- und Faserforschung Denkendorf
Biobased Polymers for Meltblown Nonwovens in Low Gramature Applications
- 15:10 María Duque Fernández
Resortecs
Unlocking Circularity in Textiles: Automated Disassembly for Scalable Recycling
- 15:30 Leonard Both
matterr GmbH
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

Michael R. Buchmeiser
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Frankfurt am Main

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

Jochen Wirsching
Freudenberg SE,
Weinheim

Christina Scheffler
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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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<https://www.eurogress-aachen.de/>

