



THE TEXTILE  
INSTITUTE



7-10  
OCTOBER  
2025

# The Textile Institute World Conference TIWC 2025

HOST ORGANISATION



Country

**Portugal**

City

**Porto**

Venue

**Porto  
Palácio  
Hotel & Spa**



# PROGRAMME

## *Tuesday 7th October*

16:00 - 18:00 Early Registration  
Finger food & drinks

## *Wednesday 8th October*

08:30 - 09:00 Registration  
09:00 - 09:10 Welcome by Aquitex  
09:10 - 09:25 Opening Address by Charles Wood CText FTI, The Textile Institute World President  
09:25 - 09:40 Introductory notes from Ricardo Silva, President of the Portuguese Textile Association  
09:40 - 10:05 *What future for our industry?* - Mário Jorge Machado, Euratex -  
Keynote speech European Apparel and Textile Confederation (PT)  
10:05 - 10:30 *From Zero to 100: How Leaders Accelerate AI Adoption*  
Keynote speech *Responsibly* - René Bohnsack, Católica Lisbon School of  
Business and Economics | Venturely.io (DE)  
10:30 - 10:50 Coffee break  
10:50 - 12:30 Parallel Session 1  
12:30 - 14:00 Lunch Break  
12:45 - 14:00 The Textile Institute Information Session  
*Douro Norte Hall* - Explore the **Professional Qualifications Workshop** and **Meet the Editors**, get an insider's guide to **The Textile Institute Events**  
*Douro Sul Hall* - Discover the benefits of joining the **Membership Community**  
14:00 - 15:40 Parallel Session 2  
15:40 - 16:00 Coffee break  
16:00 - 17:00 Parallel Session 3  
17:05 - 17:10 Closing of Day 1  
From 18:00 Coaches from Porto Palácio Hotel  
From 19:00 Drinks, dinner & awards at the Baron's Hall & Gallery - Return coaches to Porto Palácio Hotel after the event

## Thursday 9th October

08:30 - 09:00	Registration
09:00 - 09:25	<i>Bioeconomy @ Textiles: Technology Achievements, Opportunities and Challenges</i> - Antonio Braz Costa, CITEVE   CeNTI (PT)
09:25 - 09:50	<i>Sustainability: Footwear in Focus</i> - Dr Michelle Rae, Dr Martens (UK)
09:50 - 10:30	<i>Future-Proofing the Textile Industry: Challenges, Opportunities, and Know-How</i> - Round table with manufacturers - Positive Materials, Riopelle, Grupo Impetus, Sonix, ATB
10:30 - 10:50	Coffee break
10:50 - 12:30	Parallel Session 4
12:30 - 14:00	Lunch break
12:45 - 14:00	<b>Douro Norte Hall - The Textile Institute Technical Textiles Special Interest Group Session</b>
14:00 - 15:40	Parallel Session 5
15:40 - 16:00	Coffee break
16:00 - 17:40	Parallel Session 6
17:45 - 17:50	Closing of Day 2

## Friday 10th October

08:30 - 09:00	Registration
09:00 - 09:25	Keynote speech - Claudia Giacobelli, UN Environmental Programme (IT)
09:25 - 09:50	<i>Waste to Raw Material: Technology Development for Advancing Textile Recycling</i> - Elizabeth Brown, The Manufacturing Technology Centre (UK)
09:50 - 10:15	<i>Because Great Materials Don't Just Happen</i> - Dr Anna Beltzung, Dimpora (CH)
10:15 - 10:25	Coffee break
10:25 - 12:05	Parallel Session 7
12:05 - 13:15	Lunch break

## Visit to Citeve and Centi

*Limited places available, confirmation of attendance needed*

13:15	Coaches from Porto Palácio Hotel
From 14:00	Visit to CITEVE and CeNTI with presentations, tour to facilities and project demonstrators
15:40 - 16:00	Coffee break
From 17:00	Return coaches to the <i>Porto Palácio Hotel</i> after the event

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Time	Hall	Wednesday 8 <sup>th</sup> October	
10:50 – 12:30 - Parallel Session 1	Porto	Andrea Ferris	CICLO® technology: an innovative solution to synthetic fiber fragment pollution
		Henrike Schmitz	Increasing recycled content in circular knitted fabrics with Corizon technology
		Kelly J Sheridan	Reducing fibre fragmentation in textiles: a machine learning approach to sustainable fabric design
		Liam O'Neill/Rob Shelton	Sentire - development and supply chain sustainability through fabric handle analysis
		Kailash Hambarde	Text2Fabric: controllable fabric image synthesis via fine tuned diffusion models
	Douro Norte	Anita Mitchell	Reframing fashion education: how higher education can accelerate the fashion industry towards sustainable practices and digital transformation
		João Teixeira	Lifelong learning in textile and clothing industry: circularity deck of cards
		Lisa Taylor	Empowering fashion sustainability education in Africa through digital innovation
		Amanda Briggs-Goode	Mind the gap: skills needs for a circular fashion and textile industry
		Steven Hayes	The financial sustainability of clothing manufacturing through equitable order distribution: an extended enterprise
	Douro Sul	Anja Connor-Crabb	A holistic approach to investment mechanisms to inform fashion & textile interventions
		Jane McCann	Co-design led cross-disciplinary integration of high and low-tech expertise in creating a regional supply chain
		Ghada Soliman	Lean practices in operations management: advancing efficiency and sustainability in the textile industry
		Melanie Lisa Fürch	Innovation potential in the circular textile economy: new success metric transformers
		Abu Sadat Muhammad Sayem	A case study on the emerging textile recycling industry in Bangladesh
14:00 – 15:40 - Parallel Session 2	Porto	Shelley Kotze	Challenges to scaling textile circularity: evidence from UK industry stakeholders
		Siyao Chen	Sustainable fashion, digitally empowered
		Alana James	Garment care and environmental impact: aligning consumer and industry practices
		María José Munguía Romero	Sustainability indicators for the training shoe industry
	Douro Norte	Abhimanyu Kaushik	Crafting circularity: a sustainable artisan-driven model for upcycled footwear with ethical and traceable supply chains
		Deborah Smailes	The digital passport: a sustainability journey in ethical fashion
		Angela Augusto	Digital product passports: a roadmap for textile circularity and compliance
		Maria José Abreu	The role of certifications in consumer trust and greenwashing prevention
		Ian Whiteford	Sustainability in the cashmere supply chain
	Douro Sul	Anushka Mahendra	Exploring sustainable product development in the value fashion market
		Gilda Santos	Development of military defence products: an innovative and sustainable design approach
		Kasey Hatch	Exploration of virtual fit software for the assessment of garment fit and pressure application of compression garments
		Laura-Ann Kavanagh-Baterip	Embedding body scanning into a sustainable product pipeline for fit optimization and waste reduction
		Zeeshan Azam	3D body scanning: better user experience in the digital-virtual world and solution to anthropometry and fashion industry
16:00 – 17:00 - Parallel Session 3	Porto	Holly Morris	The role of textiles in providing sustainable healthcare
		Prabhuraj D Venkatraman	Evaluation of commercial and experimental socks designed for people with diabetes for their technical performance
		Prasad Pant	Advancing sustainable textile processing through input chemical management
	Douro Norte	Becky Gooby	The opportunities and challenges for digital textile printing in sustainable localised production
		D L Ellams	Embedding digital technologies within the design process to enable circular fashion & textile systems
		Manoella Guennes	Smart textile printing and cultural sustainability: exploring creative expressions with interactive inks
	Douro Sul	Julia Wilmott	How tuck stitch structures can improve the tactility of wool fibres using 'blending through pattern'
		Atsushi Sakuma	Effect of yarn friction on the mechanical properties of plain weaves: a numerical study



Time	Hall	Thursday 9 <sup>th</sup> October	
10:50 – 12:30 - Parallel Session 4	Porto	Karen Marie Hasling	Forecasting recycled textiles: exploring colour, structure and composition data to forecast the sorting and design of recycled yarns
		Christina Froemder	AI-powered sustainability: digitising certification through machine learning and natural language processing
		Jinzhu Shen	The integration of soft robotics with apparel manufacturing: enhancing automation and intelligence in the textile industry
		Lukas Hartmann	Closed loop concept of the digitised and artificial intelligent textile mill: advanced analytics and real-time optimisation of textile production processes
	Douro Norte	Barbara Shepherd	Evaluating the quality and composition of end-of-life garments in Greater Manchester
		Olivia Skilbeck	The effect of preparation, dyeing and finishing treatments on the biodegradation of cellulosic microfibrils
		Hülya Kıcık	The unseen threat behind recycled materials: a focus on BPA contamination in textiles and textile wastewater
		Maria José Carvalho	Textile deadstock repair and remanufacturing: a circular business model opportunity
	Douro Sul	Breeshea Robinson	Application of additive manufacturing on textiles
		Jun Zhang	Intelligent manufacturing for 3D printing based on natural silk proteins
		Hyelim Kim	Manufacturing of conductive composite threads by the twisting process and evaluating of its durability
		J M Subashini	High-performance conductive nanofiber: a sustainable solution for next-gen wearables in healthcare monitoring
14:00 – 15:40 - Parallel Session 5	Porto	Rashmi Thakur	Automated garment dimension measurement using computer vision
		Rajeev Ranjan Mahto	Designing for difference: cultural intelligence in AI-driven fashion forecasting and garment design development
		Suhasish Basak	An AI-approach to the future of creating fashion
		Jess Power	Robotics and revolution: transforming niche textile manufacturing from streetwear to school uniform
	Douro Norte	Ruth Cherry	Unravelling knitwear for a circular economy
		Sophie Rotheram	Impact of yarn and fabric parameters on the fibre outcomes from mechanical recycling processes
		Suman Mundkur	Separation of textile polymers from blends and composites for circularity: a review
		Tiia Plamus	Mechanical recycling of textile materials and different valorisation methods for recycled fibres
		Max Kelly	Breaking barriers to textile circularity: innovations in fibre-to-fibre recycling
	Douro Sul	L Gethsia Judin	Wearable electromyographic monitoring: a smart sleeve solution
		Xixi Zhu	Highly sensitive biomass-based colorimetric sensing fibers for wearable toxic ammonia monitoring
		Paulina Kropidłowska	Evaluation of cut resistance of protective materials coated with geometric structures
		Ricarda Wissel	Thermoplastic elastomers as material-based solution for thermomechanical recyclability of elastic textiles
16:00 – 17:40 - Parallel Session 6	Porto	Yixuan Ma	Modelling the elastic modulus of basalt fibers: bridging production and microstructure with machine learning
		Xinyi Guan	Toward sustainable textile: a review on chemical recycling of blend textile waste
		Yunhao Wu	Adjustable textile recycling machine: impact of machine settings on fibre quality
		Jenny Banks	Continuous recycled carbon fibre – progress towards a circular composites industry
	Douro Norte	Sofia Cunha	Closing the loop in the workwear and fashion industry
		Xiaoqing Zhang	Modular fashion – a pathway toward circularity
		Nadir Ali	Dyeing of Tencel fabric with natural dye extracted from <i>Acacia nilotica</i> bark using ultrasonic-assisted dyeing
		Jorge F. B. Pereira	Eco-friendly cotton dyeing process using eutectic solvents and curcumin
	Douro Sul	Diana Santiago	Sustainable textile dyeing: expanding the chromatic palette through natural dyes of primary colours
		Laetitia Forst	Circular textile design with next gen materials
		Seunga Choi	One-bath natural black dyeing of wool fabric using pomegranate rind extract and iron mordant
		Tanvir Mahady Dip	Feasibility analysis of natural biopolymer-coated electrospun nanofibrous mat as prospective wound dressing
10:25 – 12:05 - Parallel Session 7	Porto	Princy Rana	Sustainable fibres from vineyard waste: a circular approach for producing yarns and composites
		Sophie Fields	Regenerated cellulose fibres from all cellulose composites
		Mathias Ortega	Bio-Based polyethylene for textiles: scalable solutions for sustainable performance
		Graham Stewart	Next-generation cotton processing: scalable, sustainable, and caustic-free
	Douro Norte	Mallika G S Rana	Carbon dioxide responsive switch dyes for dispersant-free polyester colouration
		Suju Fan	Coloured silk fibroin from waste silk for wool dyeing
		Yichen Li	Liquid photonic crystals for the high-efficient structural coloration of textiles
		Shweta Singh	Strengthening of textile suppliers towards making operationally resilient apparel manufacturing industry
		L H H Erangika	Development of an antibacterial pineapple leaf fiber (palf) wound dressing infused with traditional Sri Lankan herbal compounds for enhanced wound healing
		Md Morshedur Rahman	Synthesis and properties of waterborne polyurethane using biobased polyol for breathable membranes
		Priyadarshini Venkatasalam	From lab to loom: the future of fashion
		Jasmininder Kaur	Textile waste recycling in India: challenges, innovations, and sustainable solutions
		Naila Azhar	Exploring the transition towards circular business innovation among Pakistan's textile producing enterprises
Time	Hall	Friday 10 <sup>th</sup> October	