



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, Textile Institute
World President
09:25 - 09:40 Introductory notes from the President of the Portuguese
Textile Association
09:40 - 10:05 Keynote speech - Mário Jorge Machado, Euratex -
European Apparel and Textile Confederation (PT)
10:05 - 10:30 Keynote speech - 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 – The Textile Institute Information Session
Meet the Editors, explore the Professional Qualifications
Workshop, discover the benefits of joining the
Membership Community, and get an insider's guide to
Textile Institute events
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	Keynote speech - Antonio Braz Costa, CITEVE CeNTI (PT)
09:25 - 09:50	Keynote speech - Michelle Rae, Dr Martens (UK)
09:50 - 10:30	Keynote event - Round table with Materials & Fabrics manufacturers
10:30 - 10:50	Coffee break
10:50 - 12:30	Parallel Session 4
12:30 - 14:00	Lunch break - The Textile Institute Technical Textiles Special Interest Group Session
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	Keynote speech - Elizabeth Brown, The Manufacturing Technology Center (UK)
09:50 - 10:15	Keynote speech - 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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MEDIA PARTNERS



textiles

10:50 – 12:30 - Parallel Session 1	Room 1	Anita Mitchell	Reframing fashion education: how higher education can accelerate the fashion industry towards sustainable practices and digital transformation
		Joana Oliveira	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
	Room 2	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	Sentire - fabric handle tester
		Charles Allard	Text2Fabric: controllable fabric image synthesis via fine tuned diffusion models
	Room 3	Ruth Cherrington	Digitalisation in textile manufacturing: a new approach for regional and peripheral businesses
		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
14:00 – 15:40 - Parallel Session 2	Room 1	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
		Jennifer Davies	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
	Room 2	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
	Room 3	Rachael Afolabi	Advancing realistic sustainable apparel manufacturing through circularity, digitalisation, and community-focused innovation
		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
16:00 – 17:00 - Parallel Session 3	Room 1	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
		Becky Gooby	Digital textile printing: opportunities and challenges for sustainable localised production
	Room 2	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
	Room 3	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

Thursday 9th October

10:50 – 12:30 - Parallel Session 4	Room 1	A Vuruskan	AI-driven clothing recommendation system
		Janina Wagner	AI-powered sustainability: digitizing 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
		Julie King	Colour forecasting and AI: intuition or image scraping
		Lukas Hartmann	Closed loop concept of the digitized and artificial intelligent textile mill: advanced analytics and real-time optimization of textile production processes
	Room 2	Alessia Patrucco	Preparation of textile waste to recycling: analysis and removal of textile finishing treatments
		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 microfibres
		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

14:00 – 15:40 - Parallel Session 5	Room 3	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
		Tianyun Zhang	Perspective in textile energy storage integrated textile elements: textile materials, structure, and manufactured methods
Room 1	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	
	William Holderbaum	Robotics and revolution: transforming niche textile manufacturing from streetwear to school uniform	
	Cathryn Anneka Hall	Forecasting recycled textiles: exploring colour, structure and composition data to forecast the sorting and design of recycled yarns	
Room 2	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	
Room 3	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 Kropidlowska	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	
	Yixuan Ma	Modelling the elastic modulus of basalt fibers: bridging production and microstructure with machine learning	
Room 1	Nadir Ali	Dyeing of Tencel fabric with natural dye extracted from <i>Acacia nilotica</i> bark using ultrasonic-assisted dyeing	
	Alexandre M S Jorge	Eco-friendly cotton dyeing process using eutectic solvents and curcumin	
	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	
Room 2	Xinyi Guan	Tackling critical challenges in 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	
	Sofia Cunha	Closing the loop in the workwear and fashion industry	
	Xiaoqing Zhang	Modular fashion – a pathway toward circularity	
Room 3	Tanvir Mahady Dip	Feasibility analysis of natural biopolymer-coated electrospun nanofibrous mat as prospective wound dressing	
	Tao Ding	Cu ₂ O/PLA fibers with coordination crosslinking: enhanced mechanics and antibacterial activity	
	Jifeng Li	Biocompatible, durable PET-G- sericin fibers with in situ deposited AGNPs for effective antibacterial activity	
	Sophie Fields	Regenerated cellulose fibres from all cellulose composites	
	Xiaoman Zhao	Functional modification of polyester fibers based on esterase-catalyzed transesterification reaction	
Friday 10 th October			
Room 1	Graham Stewart	Next-generation cotton processing: scalable, sustainable, and caustic-free	
	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	
	Debasish Banerjee	Dyeing and processing breakthroughs - fibers – fabric substrates	
Room 2	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	
	Mathias Ortega	Bio-based polyethylene for textiles: scalable solutions for sustainable performance	
	Md Morshedur Rahman	Synthesis and properties of waterborne polyurethane using biobased polyol for breathable membranes	
	Princy Rana	Sustainable fibres from vineyard waste: a circular approach for producing yarns and composites	
	Priyadarshini Venkatasalam	From lab to loom: the future of fashion	
Room 3	Abu Sadat Muhammad Sayem	A case study on the emerging textile recycling industry in Bangladesh	
	Jasminder Kaur	Textile waste recycling in India: challenges, innovations, and sustainable solutions	
	Shweta Singh	Strengthening of textile suppliers towards making operationally resilient apparel manufacturing industry	
	Azhar Naila	Exploring the transition towards circular business innovation among Pakistan's textile producing enterprises	
	R Priyadarshini	Crafting circularity: digitally-simulated fashion from naturally dyed handloom yarns	
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