

Joint 16th CLOTECH & CBI CONFERENCE 2026, 16-18 September, Katowice

Wednesday, September 16th

Location: The Academia of Silesia

Rolna 43, 40-555 Katowice, Poland

Exhibition of Artistic Works – Visual Narratives in Textile & FashionOpening 17:30					
Welcome Party 18:00 PM - 19:30 PM.					
Thursday, September 17th					
Registration opens					08:00
Opening Ceremony					
Monika Bogusławska - Bączek - Organizer Clotech 2026					09:00
Official greetings					
Yordan Kyosev, Clotech and CBI - historical remarks					
Beatrise Santa - Organiser Clotech 2028					
KeyNote: From Glass Illusion to High-Gloss Glamour: Synthetic Materials and the Aesthetics of Shine in Fashion from the 1930s to the Present					
				Sylvia Romecka-Dymek	09:40
KeyNote: Beyond Static Avatars: 4D Body Scanning for Real Fit Prediction					
				Sandra Alemany	10:10
Coffee Break		10:40		Coffee Break	10:40
Parallel Section A				Parallel Section B	
Body Scanning	Chairman: Iwona Frydrych	11:00		Sustainability	Chairman: Sylwia Romecka - Dymek
Evaluation of Methods for Dynamic Measurement in 4D Body Scans	Lilly Römer; Jacob Hoßfeld; Yordan Kyosev	11:00		Advancing Circularity in Fashion: The Synergy of Mass Customization, 3D Virtual Simulation, and Sustainable Personalization	Agnieszka Cichocka
Generation of Knitable 3D Graphs from NURBS-Based Geometries Using Scalar Field, Level Sets and Nonlinear Smoothing	Franz Dietrich (online presentation)	11:20		Performance of Labelling System for Life Cycle Transperency in the Fashion Industry	Inga Breitzmozeré
Standards for 3D Body Processing and the 3D Body Processing Ecosystem	Carol McDonald	11:40		Sustainable Coloration of Textiles using Coreopsis tinctoria Nutt for Eco-friendly Natural Dye Applications.	Masud Alam Md
Poster Section		12:00		Poster Section	12:00
Lunch Break		13:00		Lunch Break	13:00
Automation, Robotics and AI in the Clothing Industry	Chairman: Yordan Kyosev	14:00		Properties and Quality Testing	Chairman: Agnieszka Ciechocka
A State of Art Review, AI-driven design, pattern generation, and material analysis	Estefany Peraza Melendez Ingrid; Yordan Kyosev	14:00		Programmed Elasticity via Geometric Fiber Reservoirs for Stretchable Embroidered Meshes	Robert Tonndorf
AI-Driven Fashion Trend Analysis: A systematic review in the framework of Erasmus+ Project “FashionAlse”	Ioannis Karvelis; Papahristou Evridiki (online presentation)	14:20		Biosurfactant-Based Antimicrobial Modification of Fleece Textiles, Tomasz Buratowski, Vita Nehorui	Michał Petru; Olga Paraska
Textilfabrik 7.0: Rethinking Industry – Shaping the Future!	Clara Hermesen, Rona Redeker	14:40		Possibilities for Adaption of a textile Orthosis based on 3D-Scan and X-Ray Data	Anselm Naake, Felix Kunzelmann
Artificial Intelligence in Smart Textile Systems: Materials, Sensing, Manufacturing, and Intelligent Quality Control	Asif Ahmed	15:00		A Flat-Knitting-Based Integrated Reversible Modular Electrical Interface for E-Textiles	Yutian Du
Developing sustainability competencies through iterative DBR-informed fashion design education: Evidence across four course implementations in Germany and Iran	Hanieh Choopani	15:20		SizeEUROPE: Data-Driven Evidence for Updating European Anthropometric Data	Anke Rissiek (online presentation)
Coffee Break		15:40		Coffee Break	15:40
Haptics	Chairman: Monika Bogusławska - Bączek	16:10		Functional Clothing, Protective Clothing, Forensics	Chairman: Olga Paraska
Exploratory investigation of the correlation between acoustic quantities and the abrasion stress on textile surfaces	Anselm Naake; Felix Kunzelmann	16:10		Enhancing the Cut Resistance of Basalt-Based Protective Clothing Through Reduced Graphene Oxide (rGO) Modification	Agnieszka Cichocka
Parametric Design of Functional Women's Smart Shirts from 3D Body Scans for Flat Knitted Manufacturing	Pulkit Mishra (online presentation)	16:10		Modular Fire Fighter Equipment for Waste Prevention and Usage Improvement	Justin Kühn, Jan Jordan
		16:30			16:30
5:30 PM - Departure from the university to the Silesian Museum		17:30			
6:00 PM - 7:00 PM Museum tour - learning about the history of the Silesia Region		18:00			

8:00 PM THE GALA DINNER location: Kaktusy Kato Koncept Kulinarny, Dworcowa 9, 40-012 Katowice https://www.kaktusykatowice.pl		20:00				
Friday, September 18th						
Keynote: Exposure to fire – skin and clothing surface temperatures during realistic exercise					Kalev Kuklane	09:30
Keynote: Novel device for objective multimodal sensing evaluation of textiles					Alexander Grüner; Stephanie Zöhlus	10:00
Parallel Section A				Parallel Section B		
Fashion	Chairman: Monika Bogustawska - Bączek	10:30		Functional Clothing, Protective Clothing, Forensics	Chairman:	10:30
Core - experimental garment prototype translates posture and body movement into a textile surface	Nurşah Çağlar	10:30		Assessing the Forensic Discriminatory Potential of Blue Cotton Fibres Derived from Denim Fabrics	Jolanta Wąs-Gubała, Paulina Góra	10:30
Eco-Concept Art in Fashion Design within Sustainable Fashion and Upcycling Practices	Inga Tomala; Monika Bogustawska-Bączek	10:50		Improvement of Methods for Enhancing the Protective Properties of Workwear for Builders	Dilmira Abdujabborova	10:50
Natural Dyeing Techniques in Contemporary Art.	Katarzyna Schmidt-Przewoźna	11:10		Analysis of Material Degradation in Uniforms Through Comparison of New and Outworn Fabrics	Beatrise Santa, Inga Dāboliņa	11:10
Threads of Heritage: Ethiopian Traditional Dress as a Source of Inspiration in Contemporary Textile Art, Fashion Design, and Visual Culture	Getu Temesgen Dr. Alhayat	11:30		Scandata analysis and rigid body simulation for the development of stab protective clothing	Niklas Schmidt; Yordan Kyosev, et. Al.	
Coffee Break		11:50		Coffee Break		11:50
Comfort and Customer Interaciton	Chairman: Iwona Frydrych	12:20		Properties and Quality Testing, Smart Clothing	Chairman:	12:20
Comfort of compression cover: thermophysical property vs pressure	Olena Kyzymchuk	12:20		A narrative literature review on the use of wearables for assessing physical workloads.	Konstantin Wagner	12:20
Development of Modular-Functional Sportswear for Adaptive Athletes Based on Ergonomic Modeling and Biomechanical Analysis	Dilmira Abdujabborova	12:40		Evaluating Knit and Woven Jacquard Cotton Fabrics Comfort Properties with Kawabata and Tactile Sensation Analyzer	Imranul Islam Md	12:40
3D Printing on Textiles: Application for Functional Compression Garments	Ana Černiavskaja, Kristina Ancutienė, Tomas Kuncius	13:00		Predicting Multiphase Transport in Technical Textiles via CFD approach	Bianca Eleonora	13:00
Lunch Break		13:20		Lunch Break		13:20
CLOSING THE CONFERENCE						

Poster List (Poster Session on Thursday at 12:00)

Comparative Analysis of Thermoregulatory and Cardiovascular Responses in Fully Encapsulated Protective Clothing During Seated Rest, Upper-Limb Exercise, and Treadmill Walking	Joo-Young Lee, Maria Stenkina, Ho-Joon Lee, Yonghyun Cho	1
Comparative Thermal Skin Penetration by Graphene and Other Carbon-Based Radiant Heaters for Wearable Heating Applications	Suhyeon Yeom, Joo-Young Lee	2
Consumer Preference Study for Material Properties	Valeriia Tukhanova (online)	3
Effects of Ambient Relative Humidity Conditions on Thermo-physiological and Psycho-perceptual Responses During Wet-Sheet Cooling	Yoon Jeong Baek, Maria Stenkina, Hoyeon Jeong, Suhyeon Yeom, Joo-Young Lee	4
Forensic Approaches to Comparing Red Garments	Jolanta Wąs-Gubała, Bartłomiej Feigel	5
Head–Neck Alignment–Based Cervical Pillow Enhances Sleep Physiology and Comfort: A Controlled Sleep Study	Jae-Yeon Jung, Yonghyun Cho, Subin Chung, Joo-Young Lee	6
Study of the Sorption Properties of Textile Materials	Serhii Berezenko, Natalia Berezenko, Larisa Bilotska, Ryszard Korycki, Halina Szafrńska	7
Valorization of Post-Production Knitting Waste in the Context of Clothing Eco-Design and Circular Economy	Natalia Holonko, Agnieszka Cichocka , Anna Bacciarelli-Ulacha, Andrzej Foder, Łukasz Grzejszczak	8