

DAY 1 | 07 JUNE 2022

OPENING SESSION

9:00-9:15 The official opening of the Autex 2022 Conference and welcome speech by Professor Katarzyna Grabowska, Conference Chair, Poland

9:15-9:45 Keynote Speaker: Professor Mirella Blaga, Technical University of Iasi, Romania; President of Autex

9:45-10:15 Keynote Speaker: Professor Vincent Nierstrasz, University of Borås, Sweden

10:15-10:45 Keynote Speaker: Professor Lieva Van Langenhove, Ghent University, Belgium

10:45-11:00 CONFERENCE ANNOUNCEMENTS

11:00-11:30 BREAK

ROOM	1	2	3	4	5
PANEL	Advanced, smart, protective and innovative fibres, materials and functional textiles	Textile testing, measuring technology, modelling and simulation	Nanotechnology and biotechnology in textiles (including implants and medical textiles)	Surface functionalization, chemical finishing, coating, surfaces and textile processing	Fashion, design, clothing, garment industry, ecology of textiles and textile economy
11:30-11:45	Impact response of sandwich composites with p-aramid (Kevlar®) waste fibre reinforcement. Gaye Kaya, Turkey	Mechanically robust and flexible shape memory polyurethane with hexamethylene diisocyanate as mixing segment. Jayashree Mohanty, India	Hydrothermal Deposition of Ag-doped g-C ₃ N ₄ -TiO ₂ Nanocomposite on Cotton Fabric Surface with Enhanced Photocatalytic Activity. WenJun Li, China	Photocatalytic desizing of PVA-sized cotton fabric. Sanjay Kumar Bhikari Charan Panda, India	
11:45-12:00	Aerogel applications in textile materials. Cengiz Karabulut, Turkey	Predicting air permeability of pile loop knit fabrics using fuzzy logic with type-2 fuzzy inference system. Derya Haroglu, Turkey	Co-axial aapv and ncmc-loaded wet-spun scaffolds for wound healing application. Catarina S. Miranda, Portugal	Flame-retardant textiles: a general overview. Mazyar Ahrari, Turkey	

12:00-12:15	Use of artificial intelligence for creative textile designs. Arzu Vuruskan, Turkey	Evolution of the mechanical and morphological properties of two hemp cultivars (santhica 27 and félina 34) during the dew-retted. Aurélie Decker, France	Design and development of a nanofiber reinforced multilayered cloth face mask Handan Palak, Turkey	The cationization of cotton/polyester blend. Ivana Corak, Croatia	
12:15-12:30	Use of rooted hydrophytes in developing innovative functional textiles. Sumi Haldar, India	Investigation the electrical resistance and thermal behaviour of surface mount device integrated stainless steel electronic yarn. Abdella Simegnaw Ahmmed, Belgium	Cellulose nanocrystalline-reinforced electrospun mats functionalized with antimicrobial peptides for enhanced wound healing. Marta Albertina Teixeira, Portugal	Wool Finishing for washable worsted men's jacket. Amira BELHAJ RHOUMA, France	
12:30-12:45	Multilevel full factorial design in optimizing polymer type and blend ratio for PLA/PCL and PLLA/PCL electrospun webs. Janset Oztemur, Turkey	Influence of stretching on liquid moisture transport in knitted fabrics. Małgorzata Matusiak, Poland	Investigation of some properties of pet (polyethylene terephthalate) poy yarns containing plasmonic boron nanoparticles additive. Didem Ezgi Görgün, Turkey		
12:45-13:00	Investigation of wettability measurements of protective gloves materials. Emilia Irzmańska, Poland	Spatial structure's analysis of 3D knitted spacer fabric. Aleksandra Walkowska, Poland	Bacterial inhibition via carboxymethyl cellulose-containing electrospun mats loaded with Nisin Z peptide for potential chronic wound care. Tania Tavares, Portugal		

After the end of all presentations in each panel - discussion 30 min

13:30-14:00

BREAK

14:00-14:15

Feasibility of Smart-Textiles for Vehicle-Exterior: Impact of Disturbances.
Fabian Edel, Germany

Non-stationary effects of ring rail movement in the high-speed ring spinning process with a superconducting magnetic bearing twisting system: problem and its solution.
Mahmud Hossain, Germany

TPU-based electrospun nanofibres assembled with nanowoven structure for face mask's application.
Ali Hebie, France

14:15-14:30

Sound wave absorption properties of multi-layers of different woven fabric structures.
Bethalihem Samuel, Poland

Micromechanical models for fabrics and composites made of hybrid yarns from recycled carbon fibers.
Tobias G. Lang, Germany

Innovative single and bifurcated coronary stents: From Braiding to Flexibility.
Recep Türkay Kocaman, Germany

14:30-14:45

Development of integrated in-situ actuator networks for the realization of flexure hinges for highly deformable fiber-reinforced plastic composites.
David Rabe, Germany

Simulation based development of profiled carbon rovings for concrete reinforcements.
Paul Penzel, Germany

Preparation of PVDF nanofibers by optimizing solvent properties: improved solvent viscosity and evaporation rate.
Zhongchen He, France

14:45-15:00

The influence of polyamide fibres and knitted fabric structures on thermophysiological properties.
Luisa M. Arruda, Portugal

Analysis of the local yarn elongation states during the highly dynamic stitch formation process using the example of high performance warp knitting.
Mathis Bruns, Germany

Hydrophobic and conductive cotton fabric with silver nanowires and silanes.
Alicja Nejman, Poland

<p>15:00-15:15</p>	<p>Optimization of the fiber/matrix interface and integration of a photochromic molecule in the fiber/matrix system. Barre Aden Mahad, France</p>	<p>Effect of polyester fiber shrinkage on construction characteristics of polyester/wool woven fabrics. Nuno Monteiro, Portugal</p>			
<p>15:15-15:30</p>	<p>Modernisation of Curricula in Technical and Smart Textiles Carla Hertleer, Belgium</p>	<p>A review of LCAM datasets and Sève whiteness proposal. Azmary Akter Mukthy, Czech Republic</p>			

After the end of all presentations in each panel - discussion 30 min

END OF THE 1st DAY