

AUTEX 2019 Program overview

Session 1: Wednesday 12th June Afternoon

14:00 – 15:40	Wearable technologies & smart materials	Textile technology	Nanotechnology and graphene	Comfort in textiles and clothing	Biobased textiles
16:10 – 18.15	Wearable technologies & smart materials	Textile technology	Nanotechnology and graphene	Comfort in textiles and clothing	Biobased textiles

Session 2: Thursday 13th June Morning

9:00 – 10:40	Wearable technologies & smart materials	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Electrospinning
11:10 – 12:50	Wearable technologies & smart materials	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Electrospinning

Session 3: Thursday 13th June Afternoon

14:00 – 15:40	Wearable technologies & smart materials	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Flame retardancy
16:10 – 17:50	Wearable techn & smart materials	Textile management	3D, 4D textiles and composite materials	Additive manufacturing / 3D-printing	Flame retardancy

Session 4: Friday 14th June Morning

9:00 – 10:40	Advanced polymers, fibre science & technologies.	Finishing / surface functionalisation	Protective textiles	Recycling, LCA, sustainability & circularity	Coating technology
11:10 – 12:50	Advanced polymers, fibre science & technologies..	Finishing / surface functionalisation	Protective textiles	Recycling, LCA, sustainability & circularity	Advanced dyeing/printing techn & systems

Session 5: Friday 14th June Afternoon

14:00 – 15:40	Fashion and design	Finishing / surface functionalisation	Protective textiles	Recycling, LCA, sustainability & circularity	New educational techniques
16:10 – 17:50	Fashion and design			Recycling, LCA, sustainability & circularity	

Wednesday 2019/06/12 Afternoon

Session 1A: 14:00 – 15:40

	A	B	C	D	E
	Wearable technologies and smart materials (Materials)	Textile technology	Nanotechnology and graphene	Comfort in textiles and clothing	Biobased textiles
Chair	Van Langenhove Lieva	Cherif Chokri	Grancaric Ana Marija	Adolphe Dominique	Nierstrasz Vincent
14:00 - 14:25	0668 – Smart textiles created by the application of macro-encapsulated phase change material Pause Barbara Textile Testing & Innovat LLC (USA)	0480 – Analysis of the stich formation process and modelling of the yarn movement in high performance tricot knitting machines Franz Christian TU Dresden (Germany)	0422 – Eco- and aqua-friendly nano crystalline cellulose preparation under deep eutectic solvent Choi Hyung-Min Soongsil University (S Korea)	0502 – Assessment of the fabric's wear by sound measurements on soldiers uniforms Adolphe Dominique University Haute Alsace (France)	0209 – Advanced research of the fully return-to-nature polymer Kim Seong Hun Hanyang University (S Korea)
14:25 – 14:50	0482 – Textile-amplified dielectric elastomer actuators with integrated sensors for soft roboti Mersch Johannes TU Dresden (Germany)	0081 – Influence of weave parameters on fabric tear strength Legaudiene Brigita KTU (Lithuania)	0103 – Nanofibrous webs porosity and their structure estimation Kleivaitė Virginija Kaunas University (Lithuania)	0655 – Thermal comfort physiological evaluation: which sensors for the most accurate assessment? Ferri Ada Politecnico di Torino (Italy)	0372 – Poly(lactic acid) (PLA) based nano-structured functional films for personal care applications Coltelli Maria-Beatrice CISIM-UNIFI Pisa (Italy)
14:50 – 15:15	0106 – Textile based dye sensitized solar cells with natural dyes Grassmann Carsten TU Niederrhein (Germany)	0641 – Hybrid weft-catching system for air-jet weaving machines Gries Thomas ITA RWTH Aachen (Germany)	0405 – Graphene Based Fiber Shaped Supercapacitors Ozden-Yenigun Elif Royal College of Art (UK)	0143 – Novel wrinkling measurement method designed to optimize fabric structure Lanceron Charles ENSAIT/GEMTEX (France)	0727 – Archetypes of Spider Silk Hu Jin-Lian Hong Kong Polytechnic University
15:15 – 15:40	0274 – Designing of carbon nanotubes/cotton fabric composite for E-Textiles: effect of carbon nanotubes-length on electroconductive properties Trovato Valentina University Bergamo (Italy)		0507 – Multifunctional fibrous structures based on graphene nanoplatelets, chitosan and natural fibres Ferreira Diana P University of Minho (Portugal)	0165 – The role of fiber moisture management and surface properties in bacterial growth and odor development on textiles Abu Rous Mohammed Lenzing AG (Austria)	0406 – Influence of plasma treatment on luminescence intensity of biomimetic luminescent textile Iyer Sweta University of Borås (Sweden)
15:40 -16:00	Coffee Break				

Wednesday 2019/06/12 Afternoon**Session 1B: 16:10 – 17:50/18.15**

	A	B	C	D	E
	Wearable technologies and smart materials (Materials)	Textile technology	Nanotechnology and graphene	Comfort in textiles and clothing	Biobased textiles
Chair	Van Langenhove Lieva	Cherif Chokri	Grancaric Ana Marija	Adolphe Dominique	Nierstrasz Vincent
16:00 – 16:25	0503 – Stretchable and Conductive Textile Materials for Wearable Electronics Gurarslan Alper Istanbul TU (Turkey)	0707 – Shaping the bending stiffness of distance knitted fabrics through auxetic cuts using laser plotter. Pieklak Katarzyna Łódź University (Poland)	0606 – Photoswitchable nanomaterials for the design of light-responsive smart textiles: from coating to advanced fiber-spinning technology Pinto Tânia REQUIMTE/LAQV Porto (Portugal)	0167 – A new approach for fabric sensory performance evaluation Pan Ning University California Davis (USA)	0662 - Biomimetic functional fibers inspired by spider silk Venkatesan Harun Hong Kong Polytechnic University
16:25 – 16:50	0495 – A new-fangled flexible nanogenerator comprising of Poly (vinylidene fluoride) (PVDF)/ Potassium Sodium Niobate nanorods (KNN-NRs) based nanocomposite film Bairagi Satyaranjan IIT Delhi (India)	0557 – Digital Haptics of Textiles Krzywinski Sybille TU Dresden (Germany)	0194 – Fabrication of porous polypropylene fibers embedded with nanosilica based on immiscible polymers blend by melt spinning and selective extraction. Yan Xiang ENSAIT/GEMTEX (France)	0245 – Anthropometric sizing and lower limb movement range during climbing position Dabolina Inga Riga TU (Latvia)	0441 – Wet spinning of collagen multifilament yarns. Tonndorf Robert TU Dresden (Germany)
16:50 – 17:15	0664 – Processing of textile composite materials by using shape memory alloys Topel Zeren Esra Dokuz Eylul University (Turkey)	0287 – Towards textile industry 4.0 – preparing for digital future Aneja Arun East Carolina University (USA)	0301 – Nanoscience approach to mimic wool fibre for stain proof textile Ali Azam University Otago (New Zealand)	0239 – Characterization and Thermographic Analysis of FIR Emitting Ceramic Nanoparticle Embedded Films Faisal Ashik MD ENSAIT (France)	0628 – Research on thermally induced shape memory nonwoven fabrics based on biodegradable polyesters Krucinska Izabella University Techn Łódź (Poland)
17:15 – 17:40	0532 – Multifunctional flax fibres based on the combined effect of silver and zinc oxide (Ag/ZnO) nanostructures Costa Sofia University of Minho (Portugal)	0153 – Time-dependent calculation of the velocity of a yarn launched by the main nozzle of an air-jet loom Delcour Lucas Ghent University (Belgium)			0262 – The future of education Demsar Andrej University of Ljubljana (Slovenia)
17:40 – 18:05			0487 – Textiles / clothing and nanotechnology : where are we now? Kiekens Paul Ghent University (Belgium)		

Thursday 2019/06/13 Morning

Session 2A: 9:00 – 10:40

Chair	A	B	C	D	E
	Wearable technologies and smart materials (Production)	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Electrospinning
	Trümper Wolfgang	Wöltje Michael	Wim Van Paepegem	Ferri Ada	De Clerck Karen
09:00 - 09:25	0485 – Function integration - innovative knitted fabrics for life 4.0 Trümper Wolfgang TU Dresden (Germany)	0069 – Development of traditional Chinese drug loaded hydrogel system with dual responsiveness (pH and temperature) for textile based transdermal therapy Hui Chi Leung Hong Kong Polytechnic University		0085 – The relation between clothing pressure and skin temperature wearing support knee-high socks Mitsuno Tamaki Shinshu University (Japan)	0579 – Electrospun nanofibers for skin-contact applications De Clerck Karen Ghent University (Belgium)
09:25 – 09:50	0564 – Photodiode embedded textiles for wearable sensing applications Satharasinghe Achala Nottingham Trent University (UK)	0718 – The development of Lanolin loaded electrospun cellulose acetate, polyethylene oxide and thermoplastic polyurethane nanofibers for nursing pads Akduman Cigdem Pamukkale University (Turkey)	0660 – Nanofibers for damage resistant composite materials Daelemans Lode Ghent University (Belgium)	0166 – Assessment of fabric comfort based on finger sensitivity Binti Haji Musa Atiyah Ghent University (Belgium)	0269 – Electric conductivity of silver nanoparticle doped carbon nanofibres measured by current-sensitive atomic force microscopy Wael Ali Deutsches Textilforschungszentrum Nord-West GmbH (Germany)
09:50 – 10:15	0644 – Towards washable smart textiles: investigating the impact of oxidizing bleaching agents on silver-plated textile electrodes Gaubert Valentin GEMTEX (France)	0074 – Importance of Medical Textiles and Data Visualization in Reducing Maternal and Child Mortality Arangdad Shaghayegh North Carolina State University (USA)	0048 – High strength hydrogel composite prepared from polyvinyl alcohol/cotton woven fabric Aykut Yakup Uludag University (Turkey)	0265 – Suppression effect of weak-acidic polyester on body odor Mizutani Chiyomi Otsuma W University (Japan)	0127 – Going from polymer to application: solvent electrospinning of optical nanofibrous sensors Schoolaert Ella Ghent University (Belgium)
10:15 – 10:40	0102 – Study of the electrical resistance of smart textiles made of three-dimensional printed conductive poly lactic acid on polyester fabrics Eutionnat-Diffo Prisca University of Borås (Sweden)	0300 – Development of a biocompatible and bioresorbable yarn for textile scaffold Barral Vivien ENSAIT/GEMTEX (France)	0331 – The Influence of Using Agriculture Wastes as Reinforcing Fillers on Hybrid Biocomposites Properties Aly Nermin National Research Centre (Egypt)	0278 – Absorption of photonic crystal textile in the Mid InfraRed for thermoregulation Boutghatin Mohamed ULille (France)	0450 – Design of Tailored Polyurethane Scaffolds for Tissue Engineering Applications Shah Hosseini Neda ENSAIT (France)
10:40 -11:00	Coffee Break				

Thursday 2019/06/13 Morning

Session 2B: 11:10 – 12:50

	A	B	C	D	E
	Wearable technologies and smart materials (Production)	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Electrospinning
Chair	Trümper Wolfgang	Wöltje Michael	Wim Van Paepegem	Ferri Ada	De Clerck Karen
11:00 – 11:25	0690 – Influence of the laminating process on the behavior of conductive textile materials Loss Caroline University Beira Interior (Portugal)	0545 – Novel Type of Adult Diaper from Natural Fibers Mankodi Hireni MS University Baroda (India)	0040 – Formability of the three-dimensional tufted composite reinforcements Shen Hao ENSAIT/GEMTEX (France)	0234 – A new approach for assessment of polypropylene fiber usage in sportswear Gunesoglu Cem Gaziantep University (Turkey)	0651 – Capillary number and fiber orientation dependent wicking pattern in electrospun membranes Fischer Robert EMPA (Switzerland)
11:25 – 11:50	0243 – Direct Ink Writing of functional pastes and inks for Smart Textiles Normann Marina TU Niederrhein (Germany)	0454 – Smart medical textiles for wireless health monitoring Meyer Marcin Karl Otto Braun GmbH (Germany)	0444 – 3D woven cellular structures as continuous reinforcement in cement-based composites subjected to impact loading Sennewald Cornelia TU Dresden (Germany)	0585 – Development of a kinematic human model for clothing design / simulation Zhang Doudou TU Dresden (Germany)	0721 – Functionalization of electrospun nano web using Ethiopian endemic plants Mersha Yalewlet University Haute Alsace (France)
11:50 – 12:15	0031 – Towards the development of smart textile UV-sensors using inkjet printing and UV-LED curing Seipel Sina University of Borås (Sweden)	0472 – Combining Bioinks and Fiber Reinforcement - Towards Mechanically Stable Tissue Engineering Structures Brünler Ronny TU Dresden (Germany)	0097 – Tensile properties characterizations of dry high-molecular-weight polyethylene three dimensional warp interlock fabrics for composite reinforcements Li Mengru ULille (France)	0609 – Compression fatigue behaviour of a biomimetic 3D textile structure for pressure ulcers prevention Silva Pedro University of Minho (Portugal)	0728 – Electrospun Keratin/Poly(butylene succinate) mats for wound healing and drug delivery applications Aluigi Annalisa ISOP – INRC (Italy)
12:15 – 12:40	0457 – Surface functionalization of fabrics as a method for development of smart textile Amir Elizabeth Shenkar College Eng & Design (Israel)	0290 – Mechanisms and kinetics of silver nanoparticle release from polyvinyl alcohol/keratin/chitosan electrospun nanofibrous scaffold Islam Mohammad Tajul University of Otago (New Zealand)	0258 – The embedded polymeric optical fiber (POF) in 3D composite for health monitoring Hamouda Tamer National Research Centre (Egypt)	0680 – Surface profile and frictional properties of denim fabrics Uren Nazli Dokuz Eylul University (Turkey)	0505 – Electrospinning of silica nanofibrous membranes for the separation of heterogeneous azeotropes Loccufier Eva Ghent University (Belgium)
12:40 – 14:00	Lunch Break				

Thursday 2019/06/13 Afternoon

Session 3A: 14:00 – 15:40

Chair	A	B	C	D	E
	Wearable technologies and smart materials (Applications / testing)	Medical textiles	3D, 4D textiles and composite materials	Comfort in textiles and clothing	Flame retardancy
	Kyosev Yordan	Wöltje Michael	Hertleer Carla	Ferri Ada	Casetta Mathilde
14:00 - 14:25	0324 – Automated virtual development and analysis of structures for textile wearables Kyosev Yordan TU Niederrhein (Germany)	0514 –3D Textile Implants for Bone Regeneration from Silk Generated by Additive Manufacturing Wöltje Michael TU Dresden (Germany)	0060 – Use of Honeycomb Spacer Fabric as Grounded Vertical Agriculture Production Structure Ozkendirci Basak Altinbas University (Turkey)	0366 – The finite-element modelling of compression sportswear. Tyurin Igor Kosygin University (Russia)	0569 – Contribution of infill materials to the fire behavior of artificial grass Casetta Mathilde ULille (France)
14:25 – 14:50	0458 – Tribo-electric power generating behavior of textile flocked surfaces Kim Yong Un. Massachusetts Dartmouth (USA)	0549 – Achievements and limits on the obtaining of textile fabrics for therapy of burn wounds with large surface Radu Cezar UASVM (Romania)	0109 – Near-microscale modeling of dry woven fabrics under in-plane shear loading Dinh Tien Dung Ghent University (Belgium)	0440 – Thermal comfort of textiles for tent application Gooijer Henk Saxion University (Netherlands)	0542 – Radiografting of phosphorus flame retardants on flax fabrics: competition between homopolymerization and grafting Lopez Cuesta Jose Marie IMT Mines Ales (France)
14:50 – 15:15	0443 – Embroidered split ring resonator antenna Cochrane Cedric ENSAIT (France)	0623 – Butyric-acetic chitin copolyester (BAC) – the journey from chitin to dressing material enhancing wound healing Draczyński Zbigniew Łódź University (Poland)	0256 – Specific properties of 3D warp interlock carbon fabrics for composite material Korkmaz Mehmet Dokuz Eylul University (Turkey)	0666 – Portuguese firefighters' perceptions concerning protective gloves Piacenza Moraes Anna Sophia University of Minho (Portugal)	0108 – Wet spun composite fibres with enhanced thermal and moisture properties by incorporating waste alpaca powder Al Faruque Md Abdullah Deakin University (Australia)
15:15 – 15:40	0722 – Smart flexible materials close to the industrial break-through Zavec Daniela Titera Ltd (Slovenia)	0276 – From 3D scan to body pressure of compression garments Li Ziyuan Ghent University (Belgium)	0720 – Analyses of the drapability of biaxial reinforced weft-knitted fabrics by means of FEM meso-scale models Pham Minh Quang TU Dresden (Germany)	0705 – 3D CAD method of predicting the fitting to the smart garments Boldt Rachel University of Minho (Portugal)	0113 – Novel halogen free Flame retardants for textile finishing Mayer-Gall Thomas DTFI Nord West GmbH (Germany)
15:40 -16:00	Coffee Break				

Thursday 2019/06/13 Afternoon

Session 3B: 16:10 – 17:50

	A	B	C	D	E
	Wearable technologies and smart materials (Applications / testing)	Textile management	3D, 4D textiles and composite materials	Additive manufacturing and 3D-printing	Flame retardancy
Chair	Kyosev Yordan	De Clercq Geert	Hertleer Carla	Fiorio Rudinei	Casetta Mathilde
16:00 – 16:25	0685 – Characterization of Carbon-Nickel Thermocouples Integrated in Textile Fabrics Hardianto Anto Ghent University (Belgium)	0150 – Investigating the Entrepreneurial Innovation Eco-system in the Textile and Apparel Industry Pourmojib Samaneh North Carolina State University (USA)	0446 – Influence of the number of layers on mechanical properties of 3D warp interlock fabric made with flax roving Lansiaux Henri ENSAIT (France)	0158 – Mechanical characterisation of additively manufactured continuous fibre composites Van De Steene Willem Ghent University (Belgium)	0149 – A novel nitrogen-containing carboxyl-functionalized organophosphorus system for flame retardant finishing of cotton fabrics Castellano Angela University of Bergamo (Italy)
16:25 – 16:50	0409 – User Experience of wearable infant sleep monitoring for medical research and diagnostics Ilén Elina Aalto University (Finland)	0513 – Development of a Process Analysis Method to Devise a Location Based Textile Production Strategy Gries Thomas ITA RWTH Aachen (Germany)	0462 – Process chain development for 3D net shape woven fabrics Shegner Philipp TU Dresden (Germany)	0224 – Improvement of the adhesion of 3D printed conductive polymer on woven fabrics by using 3D needle-punching fabric Kadi Nawar University of Borås (Sweden)	0056 – Flame retardancy: still a hot topic De Vilder Ine Centexbel (Belgium)
16:50 – 17:15	0164 – Smart Textile based fraticide prevention system Kuhlmann Jan-Carlos Saxion University (Netherlands)	0464 – Process-oriented value-added creation in textile networks for mass customization in SMEs Barteld Marco SächsischesTFI eV (Germany)	0533 – Robot based Technology for the production of novel resource-saving and cost-efficient textile reinforcements for direct further processing into prefabricated parts Martin Von Zuben TU Dresden (Germany)	0445 – Automated additive manufacturing of short fiber preforms with tailor-made properties Weise Daniel TU Dresden (Germany)	0618 – Flame retardant textile finishing chemicals: in vitro assessment of dermal absorption Marti Meritxell IQAC-CSIC (Spain)
17:15 – 17:40	0715 – Evaluation of Cyber Security of Electronic Communication Systems in Smart Textiles Bräuning Manuela TU Albstadt-Sigmaringen (Germany)			0157 – Bio-material polylactic acid/poly(butylene adipate-co-terephthalate) blend developed for extrusion-based additive manufacturing Wang Sisi Ghent University (Belgium)	

Friday 2019/06/14 Morning

Session 4A: 9:00 – 10:40

	A	B	C	D	E
	Advanced polymers and fibre science and technologies	Finishing / surface functionalisation	Protective textiles	Recycling, life cycle analysis, sustainability and circularity	Coating technology
Chair	D'hooge Dagmar	Nousiainen Pertti	Boussu François	Sarka Ajoy	Koncar Vladan
09:00 – 09:25	0145 – A multi-scale tool for functionalization of polyolefins through radical grafting D'hooge Dagmar Ghent University (Belgium)	0099 – Improvement in dyeability of ultra-high molecular weight polyethylene fiber by electron-beam grafting Okubayashi Satoko Kyoto Institute of Technology (Japan)	0216 – 3D warp interlock fabrics as a new material for female ballistic protective vest design Boussu François ENSAIT (France)	0247 –Composting to colorants: A novel approach for sustainability and circularity Sarka Ajoy Fashion Institute of Technology (USA)	0198 – Membranes for apparel with the additional barrier function for the reduction of irradiation heat loss Lipik Vitali TU Nanyang (Singapore)
09:25 – 09:50	0474 – Modelling of adaptive Systems for interactive fiber rubber composites Lohse Felix TU Dresden (Germany)	0171 – Improvement of Glucose Oxidase Activity Immobilized on Polyester Nonwoven Mediated by Hyper-branched Dendrimers Morshed Mohammad Neaz University of Borås (Sweden)	0704 – Combating Invasive Mosquitoes by Textiles and Paints Grancaric Ana Marija University of Zagreb (Croatia)	0506 – Using NIR technology to identify value in waste textile streams. Cura Kirsti Lahti University AS (Finland)	0349 – Electrically conductive textiles under consideration of percolation threshold and polymer crystallinity Lempa Evelyn TU Niederrhein (Germany)
09:50 – 10:15	0475 – Interest of in situ-Raman spectroscopy in the optimization of piezoelectric fibers for the development of energy harvesters. Rault François ENSAIT/GEMTEX (France)	0296 – Development of sustainable non-fluorinated hydrophobic treatments for conservation of textiles Mazzon Giulia Istituto Italiano di Tecnologia (Italy)	0382 – Efficacy of Synthetic Pyrethroids Vs Plant Based Insect Repellents on Textiles. Arangdad Kiarash ITG Burlington (USA)	0151 – Microfibre pollution – what's the story for wool? Collie Stewart AgResearch Ltd (New Zealand)	0203 – Electrospayed n-hexadecane/polycaprolactone microcapsules used in thermoregulated cotton fabrics Zhang Shengchang ENSAIT (France)
10:15 – 10:40	0558 – High density polyethylene-based microporous carbon fibers as high-performance cathode materials for Li S batteries Tran Nguyen Hoai An TU Dresden (Germany)	0336 – Microencapsulation of DEET & citriodiol oil by utilizing functional biopolymers: A sustainable approach for multifunctional textiles Singh Nagender IIT Delhi (India)	0341 – Designing soft body armour using 2D and 3D polyphenylene benzobisoxazole and ultra-high molecular weight polyethylene fabrics impregnated with shear thickening fluid Mawkhlieng Unsanhame IIT Delhi (India)	0233 – Textile Reuse and Recycling in Greece, Fact or Fiction? Gravas Efthimios University West Attica (Greece)	0230 – Electromagnetic shielding achieved by plasma coated fabrics Radulescu Ion Razvan INCDTP Bucharest (Romania)
10:40 -11:00	Coffee Break				

Friday 2019/06/14 Morning

Session 4B: 11:10 – 12:50

Chair	A	B	C	D	E
	Advanced polymers and fibre science and technologies	Finishing / surface functionalisation	Protective textiles	Recycling, life cycle analysis, sustainability and circularity	Advanced dyeing/printing technologies and systems
	D'hooge Dagmar	Nousiainen Pertti	Boussu François	Sarkar Ajoy	Kiekens Paul
11:00 – 11:25	0665 – Polyurethane/graphene nanocomposite films with enhanced gas barrier and weather resistance properties Adak Bapan IIT Delhi (India)	0333 – Supercritical carbon dioxide: A sustainable medium for textile dyeing and finishing to expand the possibilities for a resource efficient production technology Malm Veronica University of Borås (Sweden)	0181 – Slicing cuts on triaxial fabric using a robotic-controlled razor blade EI-Tarfawy Shaimaa Alexandria University (Egypt)	0183 - Decreasing inter-fiber friction with lubricants for efficient mechanical recycling of textiles Lindström Katarina University of Borås (Sweden)	0561 – Microencapsulation of the C.I. Reactive Orange 122 Via Solvent Evaporation Maesta Bezerra Fabricio University of Paraná (Brasil)
11:25 – 11:50	0625 – Interconnecting pore systems in polyacrylonitrile-based carbon fibers using functionalised lignins Richter Mirko TU Dresden (Germany)	0508 – Volatile organic compound treatment under visible light by using a functionalized textile Gidik Vanderberck Hayriye HEI-YNCREA (France)	0121 - Modeling reinforcement structures in textile aimed at biomechanical purposes Malengier Benny Ghent University (Belgium)	0249 – Sustainability driven textile materials and processes evaluation supported by the customizable software tool Pandora Rajme-Mendez Jirka Saxion University (Netherlands)	0620 – Microwave-assisted Enzymatic Treatments of Cotton Knits Yılmaz Şahinbaşkan Burcu Marmara University (Turkey)
11:50 – 12:15	0423 – Artificial turf developments and sport applications at Ghent University Rambour Stijn Ghent University (Belgium)	0574 – Influence on the Layer-by-layer Modification onto Thermal Properties of Polypropylene Textiles Stawski Dawid Łódź University (Poland)	0152 – Microbial growth in the nonwoven materials of dust-loaded filtering facepiece respirators Okrasa Malgorzata CILP-NRI (Poland)		0259 – Functionalisation of polyester fabric with bio-based antibacterial ortho-vanillin using microwaves. Behary Nimeshwaree ULille (France)
12:15 – 12:40	0343 – Effect of alkali treatment on basic properties and interfacial bonding properties of polyimide fibers Jiang Jinhua Donghua University (China)		0635 – Textile nonwoven metamaterials Krucinska Izabella Łódź University (Poland)	0717 – Kinetic Studying of Reactive Dye Adsorption by Organoclay Minerals Akçakoca Kumbasar Emriye Perrin Ege University (Turkey)	
12:40 – 14:00	Lunch Break				

Friday 2019/06/14 Afternoon

Session 5A: 14:00 – 15:40

	A	B	C	D	E
	Fashion and design	Finishing / surface functionalisation	Protective textiles	Recycling, life cycle analysis, sustainability and circularity	New educational techniques
Chair	Carvalho Miguel	Nousiainen Pertti	Boussu François	Daelemans Lode	Blaga Mirela
14:00 - 14:25	0478 - Development of technical mannequin based on anthropometric study of portuguese children Carvalho Miguel University of Minho (Portugal)	0188 – Biocidal Functionalization of PET with N-Halamine Using by Supercritical Carbon Dioxide Orhan Mehmet University of Borås (Sweden)	0310 – Development of comfortable motorcyclist gloves from recycled Poly Para- Phenylene Terephthalamide Jamshaid Hafsa National Textile University (Pakistan)	0483 – Process Development for Uni Directional tape structure based on recycled carbon fiber and thermoplastic fibers for fiber reinforced plastics Khurshid Muhammad Furqan TU Dresden (Germany)	0712 – Smart education for smart textiles Blaga Mirela Gheorghe Asachi Technical University of Iasi (Romania)
14:25 – 14:50	0402 – Kinematic modeling of a motorcycle rider for design of functional clothing Jolly Kanika IIT Delhi (India)	0637 – Textile noise reduction – requirements, options and restrictions for interior design Blaurock Carolin ITA RWTH Aachen (Germany)	0359 – Ballistic performance of soft body armour: Effect of particle size of silica in shear thickening fluid and stacking sequence of fabrics Bajya Mukesh IIT Delhi (India)	0520 – Clothing disposal behaviour: where do we stand? Marquez Antonio University of Minho (Portugal)	0297 – Enabling 21st Century Skills for Textile Education by Integrating Design Thinking in Elementary Schools Hoegsdal Sabine Reutlingen University (Germany)
14:50 – 15:15	0570 – Knitted fabric textile classification based on global feature Yao Pengpeng Hong Kong Polytechnic University	0375 – Improvement of biofilm formation in tricked bed reactors by surface modification of different packing materials Garcia Campa Ruth Leitat Technological Center (Spain)	0360 – Auxetic self-folding knitted fabrics for protective application Liu Yanping Donghua University (China)	0642 – Assesment of Eco-criteria in Terms of Sustainability Approach in Textile Sector Altintas Akay Dilek Cantekstil AS (Turkey)	0279 – Internships as a project based learning for international students at FT TUL Těšinová Pavla University of Liberec (Czech Republic)
15:15 – 15:40	0459 – Reconstruction of historical textile fabrics and dresses in virtual reality Kuzmichev Victor Ivanovo State P University (Russia)	0481 – Enzyme immobilization on textiles by inkjet printing for advanced applications Biswas Tuser University of Borås (Sweden)		0309 – Upcycling textile waste towards a sustainable industry Behera Bijoya Kumar IIT Delhi (India)	
15:40 -16:00	Coffee Break				

Friday 2019/06/14 Afternoon

Session 5B: 16:10 – 17:50

	A	B	C	D	E
	Fashion and design			Recycling, LCA, sustainability & circularity	
Chair	Carvalho Miguel			Daelemans Lode	
16:00 – 16:25	0357 – A prototype virtual draping system Inui Shigeru Shinshu University (Japan)			0351 – Study of pollutant particles status of colored textile wastewater in semi-batch oxidative reactor Vafae Maedeh University Haute Alsace (France)	
16:25 – 16:50				0374 – Textile microplastics: a critical overview Felix de Castro Paula Leitat Technological Center (Spain)	
16:50 – 17:15	0411 – Describing the quality of fit on a 3D virtual mannequin using an algorithm to simulate real fabric draping based on various material properties. Balach Monika TU Łódź (Poland)				
17:15 – 17:40	0629 – Co-creation: A Path-breaking Initiative for Fashion Design Community Kidile Sandeep Nat Inst of Fashion Technology (India)				