

The list of the accepted abstracts for the upcoming 11<sup>th</sup> ITC&DC on May 21<sup>st</sup>, 2024

<b>Authors</b>	<b>Title</b>	<b>Institution</b>	<b>Presentation</b>
<b>PLENARY LECTURE</b>			
Juan P. HINESTROZA	TRANSFORMING TEXTILE WASTE INTO RAW MATERIALS FOR FUNCTIONAL MOLECULES: A FEASIBLE PATH FOR CIRCULARITY	Cornell University	oral
<b>EXPERT FOCUS LECTURE</b>			
Lidija FRAS ZEMLJIČ	FUNCTIONALIZATION OF POLYMER MATERIALS FOR INTRODUCTION OF BIOACTIVE PROPERTIES	University of Maribor Faculty of mechanical engineering	oral
Torsten TEXTOR	INTERDISCIPLINARY PRODUCT DEVELOPMENT IN RESEARCH AND EDUCATION - WITH SOME EXAMPLES FROM SMART TEXTILES	Hochschule Reutlingen, TEXOVERSUM Fakultät Textil	oral
<b>A – Textile fibres and advanced Materials</b>			
Nina ČUK; Barbara SIMONČIČ; Rok FINK & Brigita TOMŠIČ	UNVEILING THE IMPACT OF COTTON SURFACE FREE ENERGY ON BACTERIAL ADHESION PROPERTIES	University of Ljubljana	oral
Klaus OPWIS & Jessica SCHNEIDER, Thomas MAYER-GALL, Jochen S. GUTMANN	TEXTILES WITH CATALYTIC PROPERTIES	Deutsches Textilforschungszentrum Nord-West gGmbH	oral
Marcus KRAHL & Sebastian JOBST	DEVELOPMENT OF 3D-STRUCTURES WITH AUXETIC MATERIAL BEHAVIOUR PRODUCTION OF INNOVATIVE, FOAM-FREE AND CURVED TEXTILES FOR ENERGY ABSORPTION	Technical University Chemnitz	poster
Emília CSISZÁR, Mik MIRANDA & Erika FEKETE	COLORED WASTE TEXTILES AS CELLULOSE SOURCES FOR THE PRODUCTION OF NANOCRYSTALLINE CELLULOSE	Budapest University of technology and Economics	poster
Anna UJHELYIOVÁ; Kristína BANÍKOVÁ; Jozef RYBA; Marcela HRICOVÁ & Mária PETKOVÁ	EFFECT OF VARIOUS PLAs ON THE FIBRE PROPERTIES FOR TEXTILE APPLICATIONS	Slovak University of Technology	poster
Azam ALI; G M Nazmul ISLAM; & Stewart COLLIE	TEXTILE SENSOR CONSISTS OF 2D MATERIALS	University of Otago	oral

Zita TOMČIKOVÁ; Štefan KRIVOŠ & František HRBÁL	A PLANNED EXPERIMENT FOR THE DEVELOPMENT AND PREPARATION OF PLA FIBRES WITH IMPROVED ELONGATION	Research Institute for Man-Made Fibres	poster
Olena KYZYMCHUK; Svitlana ARABUL, Tilo PILLING & Liudmyla HALAVSKA	EFFECT OF A METAL WIRE ON THE STRUCTURE OF HYBRID KNITTED FABRIC	TUD Dresden University of Technology	oral
Alenka OJSTRŠEK & Laura JUG	SYNTHESIS AND CHARACTERISATION OF Ti3C2Tx MXENES FOR ELECTROCONDUCTIVE FUNCTIONALISATION OF TEXTILES	University of Maribor	poster
Julija PUPEIKĖ, Audronė SANKAUSKAITĖ, Sandra VARNAITĖ-ŽURAVLIOVA, Vitalija RUBEŽIENĖ, Aušra ABRAITIENĖ & Julija BALTUŠNIKAITĖ-GUZAITIENĖ	APPLICATION OF PEDOT: PSS FOR ELECTRICALLY CONDUCTIVE AND WEAR-RESISTANT COATING	State research institute Center for Physical Sciences and Technology, Lithuania	poster
Ružica BRUNŠEK, Branka VOJNOVIĆ, Jasminka BUTORAC & Petra MIHOVILOVIĆ	COMPARATIVE ANALYSIS OF DIFFERENT RETTING METHODS OF FLAX AND THE INFLUENCE ON THE QUALITY OF WASTEWATER	University of Zagreb Faculty of Textile Technology	poster
Ruzica BRUNŠEK, Ivana SCHWARZ & Anica MIOČ	BIODEGRADATION OF BAST FIBERS	University of Zagreb Faculty of Textile Technology	poster
Manja KUREČIČ; Lidija ŠKODIČ; Darko ŠTANC; Branko NERAL; Laura BERGLEZ & Silvo HRIBERNIK	UTILIZATION OF WASTE SILK COCOONS FOR INNOVATIVE MATERIAL PRODUCTION: A PATHWAY TOWARDS SUSTAINABLE SOLUTIONS	University of Maribor, Faculty of mechanical engineering	poster
Ahmet ÇAY; Tuğçe TÖNGÜÇ YALÇINKAYA; Mert IŞILAY; Ebru BOZACI; Gözde DUMAN TAÇ; E. Perrin AKÇAKOCA KUMBASAR; Jale YANIK	CARBON DIOXIDE CAPTURE OF WOOL-BASED ACTIVATED CARBON FIBERS BY CHEMICAL ACTIVATION WITH K <sub>2</sub> CO <sub>3</sub>	Department of Textile Engineering, Faculty of Engineering, Ege University	oral
<b>B – Textile finishing, dyeing and care</b>			
Zarnab GUL; Kashif IQBAL & Daiva MILASIENE	MULTIFUNCTIONAL COCONUT OIL BASED MICROCAPSULES FOR FUNCTIONAL TEXTILE	Kaunas University of Technology	oral

Rasa GOFMAN & Rimvydas MILAŠIUS	ANTIMICROBIAL TREATMENT BEYOND MICROBES: ANTISTATIC POTENTIAL FOR ENHANCED INDUSTRIAL TEXTILE PERFORMANCE	Kaunas University of Technology	oral
Zorana KOVAČEVIĆ, Lea BOTTERI, Katia GRGIĆ	ASSESSING FLAME RETARDANT EFFECTS: IMPREGNATION VS. COATING ON COTTON FABRIC WITH UREA/AMMONIUM DYHYDROGEN PHOSPHATE	University of Zagreb Faculty of Textile Technology	oral
Ines DOMINIĆ, Zorana KOVAČEVIĆ, Sandra BISCHOF	PRETREATMENTS OF ENERGY CULTURE MISCANTHUS X GIGANTEUS FOR FIBERS ISOLATION	University of Zagreb Faculty of Textile Technology	oral
Bosiljka ŠARAVANJA; Tanja PUŠIĆ; Krešimir MALARIĆ & Anica HURSA ŠAJATOVIĆ	STABILITY OF EMR PROTECTIVE PROPERTIES OF FUNCTIONAL FABRIC WITH METAL THREADS	University of Zagreb Faculty of Textile Technology	oral
Agata VINČIĆ; Tanja PUŠIĆ; Nino DIMITROV & David POSAVEC	DETERMINATION OF THE AMOUNT OF RELEASED FIBER MICROPARTICLES IN THE WASHING OF STANDARD POLYESTER KNITTED FABRIC	University of Zagreb Faculty of Textile Technology	poster
Branko Neral, Lidija ŠKODIČ, Darko ŠTANC, Manja KUREČIČ	EVALUATION OF MOISTURE CONTENT IN HOUSEHOLD TEXTILES DURING DRYING WITH NON-CONTACT NIR SPECTROSCOPY	University of Maribor, Faculty of mechanical engineering	poster
Daiva MILASIENE; Gabriele BUTENAITE & Remigijus IVANAUSKAS	COPPER-CONTAINING PARTICLES FINISHING OF INDUSTRIAL TEXTILE WASTE FOR NEW FUNCTIONAL COMPOSITES	Kaunas University of Technology	poster
<b>C – Clothing technologies and engineering</b>			
Mia PETEŠIĆ & Renata HRŽENJAK	POSTMODERN ARCHITECTURE REPRESENTED BY A MODERN COLLECTION OF WOMEN'S BLOUSES	University of Zagreb Faculty of Textile Technology	poster
Yordan KYOSEV; Anselm NAAKE	CORRELATION ANALYSIS BETWEEN PANEL TEST AND TISSUE SOFTNESS ANAYZER(TSA) RESUTLS OF TEXTILE HANDLE FOR A SET OF WOVEN FABRICS FOR CLOTHING	TU Dresden, Chair of Development and Assembly of Textile Products	oral
Jacob HOSSFELD; Yordan KYOSEV	ANALYSIS OF THE ADVANTAGES OF mSLA PRINTING ON TEXTILES	Chair of Development and Assembly of Textile Products, ITM	oral
Snježana KIRIN & Anica HURSA ŠAJATOVIĆ	INVESTIGATION OF WORK-RELATED MUSCULOSKELETAL DISORDERS IN FEMALE WORKERS DURING SEWING	Karlovac University of Applied Sciences, Department of Safety and Protection	poster

## D – Analysis, testing and quality control

Petra MIHOVILOVIĆ & Branka VOJNOVIĆ	THE POSSIBILITY OF USING AN AZO DYE IN THE DETERMINATION OF CHITOSAN IN TEXTILE WASTEWATERS	University of Zagreb Faculty of Textile Technology	oral
Branka VOJNOVIĆ; Petra MIHOVILOVIĆ & Antonija IVEZIĆ	ISOLATION TECHNIQUES FOR SEPARATION OF MICROPLASTIC PARTICLES FROM LAUNDRY EFFLEUNTS	University of Zagreb Faculty of Textile Technology	poster
Ossi MARTIKKA; Niko RINTALA & Lea HEIKINHEIMO	UTILIZING NIR-TECHNOLOGY FOR QUALITY ASSURANCE OF MANUAL PRE-SORTING OF WASTE TEXTILES	LAB University of Applied Sciences	oral
Niko RINTALA & Enni ARVEZ	IMPROVING SEPARATION OF NATURAL FIBERS WITH SIMILAR CHEMICAL STRUCTURE UTILIZING NIRS	LAB University of Applied Science	poster
Ana ČERNIAVSKAJA & Kristina ANCUTIENĖ	3D VIRTUAL FITTING TECHNOLOGY TO EVALUATE COMPRESSION IN FUNCTIONAL GARMENTS WITH ADHESIVE SYSTEMS	Kaunas University of Technolog	poster
Burhan CENGIZALP; Barış MANCAR; Güngör DURUR	TOWEL PERFORMANCE EVALUATION IN TEXTILE ENGINEERING: LOOP TENSILE FORCE ANALYSIS	DOK-SAN Textile Industry and Trade Inc. R&D Center	oral
Marijana TKALEC; Martinia GLOGAR & Petra FORTE TAVČER	FABRIC STRUCTURE – DIGITAL INKJET COLOUR REPRODUCTION ANALYSIS AND INTERACTION	University of Zagreb Faculty of Textile Technology	poster
Marijana TKALEC; Ivana ČORAK & Martinia GLOGAR	ANALYSIS OF SORPTION PROPERTIES OF TEXTILE MATERIAL AS A KEY BEHAVIORAL FACTOR OF PRINTING INK IN DIGITAL INKJET PRINTING	University of Zagreb Faculty of Textile Technology	poster
Marijana PAVUNC SAMARŽIJA; Martina MAMIĆ; Suzana NJEGAČ & Edita VUJASINOVIĆ	FIBERS IDENTIFICATION IN PAPERS ARCHIVAL MATERIALS	University of Zagreb Faculty of Textile Technology	poster
Evelīna MILEIKA, Ilgvars GORŅEVS, Vilnis JURĶĀNS, Ilze BALGALE, Ilze BALTIŅA, Juris BLŪMS	DETERMINING TRIBOELECTRIC PROPERTIES OF TEXTILES	Riga Technical University	oral
Zbigniew DRACZYNSKI, Ninon LARA, Alvinton Takunda MUCHINGANI, Yigit AKCALI, Rebecca EMMERICH & Marcin BARBURSKI	MECHANICAL AND ANTI-INFLAMMATION PROPERTIES OF COMPOSITES MADE OF POLY(L-LACTIC ACID) AND FLAX NONVOWENS	Lodz University of Technology	oral

## E – Design and marketing of textile and clothing

Elena FAJT; Nastja SAGADIN GRMEK; Alenka MORE; Marjeta ČUK & Tanja Nuša KOČEVAR	THE STUDY ON INDUSTRY, INNOVATION AND INCLUSION IN FASHION DESIGN	University of Ljubljana	poster
Idowu DIYAOLU; Kudirat BAKARE; Iyabo AWOYELU; Ayodeji OLUWATOPE; Abiodun OGUNYEMI; Emmanuel ACHUKWU; Eunice UGWU; Emmanuel ORISADARE & Oluwayemisi ADEDEJI	ICT SOCIAL INTERFACE AND BUSINESS PERFORMANCE IN THE NIGERIAN FASHION INDUSTRY	Obafemi Awolowo University	oral
Sinem BİRSEN & Canan SARIÇAM	A RESEARCH ON BIG DATA APPLICATIONS IN THE RETAIL SECTOR	Istanbul Technical University	oral
Urška DRAŽ	THE SUBCONCIOUS POWER OF CLOTHES	Draž studio	poster
Hitoshi TAJIMA	ISSEY MIYAKE 'CONSIDERATION OF DESIGN WORK BY THE THREE-DIMENSIONAL MOLDING'	Ueda College of Fashion	oral
Maja STRACENSKI KALAUZ; Kristina MARŠIĆ & Ivan NOVAK	THE UNDERSTANDING AND PERCEPTION OF E-BUSINESS PRACTICE ADOPTION AMONG FASHION, TEXTILE AND CLOTHING SME'S IN CROATIA: A CASE STUDY	University of Zagreb Faculty of Textile Technology	poster

## F – Sustainable textile products and processes

Inga BREITMOZERĖ, Jovita DARGIENĖ, Jurgita DOMSKIENĖ	READABILITY ANALYSIS OF QR CODE APPLICATION IN INTENSE WEAR AND CARE CLOTHING LABELLING	Kaunas University of Technology	oral
Elizabeth RAMOS KALMAR	COLLECTION OF ACCESSORIES THAT ARE DEVELOPED FROM ETHICAL AND POSITIVE DESIGN THINKING WITHIN THE CIRCULAR ECONOMY	University of Los Andes	poster
Elizabeth RAMOS KALMAR	RESEARCH, DESIGN AND DEVELOPMENT OF COLOR CHART FROM NATURAL DYES FOR TEXTILES AND SUSTAINABLE DESIGN	University of Los Andes	oral
Mohammad Shak SADI & Eglė KUMPIKAITĖ	TURNING WASTE INTO A RESOURCE; USING WASTE POPLAR SEED FIBERS TO DEVELOP MULTIFUNCTIONAL E-TEXTILES	Faculty of Mechanical Engineering and Design,	oral

		Department of Production Engineering	
Ivana ŠPELIĆ, Alka MIHELIĆ-BOGDANIĆ & Lucija ŠIPRAK	ENERGY DIVERSIFICATION AND SAVINGS IN POLYISOPRENE PRODUCTION	University of Zagreb Faculty of Textile Tecghnology	oral
Ivana ŠPELIĆ & Alka MIHELIĆ-BOGDANIĆ	ECOLOGICAL ADVANCES USING ECONOMIZER IN EVA RUBBER MANUFACTURING	University of Zagreb Faculty of Textile Tecghnology	oral
Emília CSISZÁR, Dávid KUN, Erika FEKETE	NANOCELLULOSES FROM COTTON AND FLAX FIBRES AND THEIR PROPERTIES	Budapest University of technology and Economics	poster
Sinem BİRSEN & Canan SARIÇAM	THE COMPARISON OF COMFORT PROPERTIES OF NON-RECYCLED AND RECYCLED FABRICS	Istanbul Technical University	oral
Edit CSANÁK	AI-SUPPORTED FASHION DESIGNING: EXPLORING SUSTAINABLE ASPECTS	Óbuda University	oral
Giulietta COZZI	MOZART AND THE MATTER OF SOUND: Between Art & Design and Marketing	Freelancer artist & designer	poster
Alen ERJAVEC; Mihael BRUNČKO; Amadeja KOLER; Peter KRAJNC; Grzegorz SZPARAGA & Julija VOLMAJER VALH	MECHANICAL RECYCLING POTENTIALS OF USED DISPOSABLE SURGICAL MASKS	University of Maribor	oral
Rita CARVALHAS, Gonçalo GOMES, Graça GUEDES & Gjoko MURATOVSKI	HEMP TEXTILE FIBRE — ONE WAY TO IMPROVE THE SUSTAINABILITY OF TEXTILE PRODUCTS	Universidade de Aveiro	oral
Marcin BARBURSKI; Tsegaye LEMMI; Agata PONIECKA & Rebecca EMMERICH	IMPACT PROPERTIES OF NATURAL FIBER REINFORCED COMPOSITES	Lodz University of Technology	oral
Lavinia POPA & Antonela CURTEZA	THEORETICAL EXPLORATION OF UPCYCLING IN THE FASHION INDUSTRY	The “Gheorghe Asachi” Technical University of Iasi	poster
Iuliana STREBA & Antonela CURTEZA	SUSTAINABLE DESIGN APPROACHES FOR THE FASHION INDUSTRY	The “Gheorghe Asachi” Technical University of Iasi	poster
Marijana PAVUNC SAMARŽIJA, Zorana KOVAČEVIĆ, Matea TOLO & Edita VUJASINOVIĆ	CHEMICAL RECYCLING OF BIOCOMPOSITES REINFORCED WITH SPARTIUM JUNCEUM L. FIBERS	University of Zagreb Faculty of Textile Technology	poster

Silvo HRIBERNIK; Laura BERGLEZ; Lidija ŠKODIČ; Darko ŠTANC; Branko NERAL & Manja KUREČIČ	ADVANCING BACTERIAL NANOCELLULOSE PRODUCTION: FROM SCOPY MEDIUM TO ORIENTED FILAMENTS	University of Maribor, Faculty of mechanical engineering	poster
Megi BASHO & Holger CEBULLA	OPTIMIZING RECYCLING EFFICIENCY OF WOOL AND WOOL BLENDS FOR SUSTAINABLE TEXTILE PRACTICES	TU Chemnitz	oral
Vasil HANDJISKI, Neja VEIT, Alen ERJAVEC & Julija VOLMAJER VALH	STUDIES ON THE ENVIRONMENTAL IMPACT OF GARDEN COVER	University of Maribor	poster