PRE-LIMINARY PROGRAMME

MONDAY JUNE 13
14:00 - 18:00 Registration
18:00 - 21:00 Welcome drink

TUESDAY JUNE 14
8:00 - 9:00 Registration
9:00 - 10:00 OPENING CEREMONY
10:00 - 10:10 Liška, Josef
SPEECH BY DIRECTOR-GENERAL OF SYNTHESIA A.S. PARDUBICE

Plenary lectures
10:10 - 10:40 Marek, Jan
TRADITION AND HIGH-TECH DEVELOPMENT – KEYS TO THE CHANGING TEXTILE MARKET
10:40 - 11:10 Walter, Lutz
CAN THE EUROPEAN TEXTILE INNOVATION ECOSYSTEM SUCCESSFULLY MEET THE CHALLENGES OF RAPIDLY EVOLVING GLOBAL MARKETS?
11:10 - 11:30 Coffee break
11:30 - 11:50 Braz Costa, Antonio
TEXTRANET – A SYSTEMATIC APPROACH TO THE INTERNATIONAL AND INTERDISCIPLINARY INNOVATION ACTIVITIES IN TEXTILES
11:50 - 12:10 Zschenderlein, Dirk
CHALLENGE FUTURE – INDUSTRIE 4.0 IN THE TEXTILE INDUSTRY
12:10 - 12:40 Beran, Miloš
COLLECTIVE RESEARCH IN THE CZECH REPUBLIC – INFLUENCE OF CLUTEX AND ČTPT TO INTENSIFY THE RDI ACTIVITIES IN CZECH TEXTILE AND CLOTHING INDUSTRY
12:40 - 14:00 Lunch and POSTERS section

SECTION 1 - Advanced fibres
14:00 - 14:20 Hrdina, Radim
NEW MEDICAL STAPLE MICRO-FIBRES
14:20 - 14:40 Pitucha, Tomas
MANUFACTURING, TEXTILE PROCESSING AND PROPERTIES OF HYALURONAN BASED MONOFILAMENT FIBERS
14:40 - 15:00 Pokorny, Marek
KEY ASPECTS OF ELECTROSTATIC SPINNING OF BIO-POLYMER NANOFIBRES
15:00 - 15:20 Knotkova, Katerina
SCALE-UP OF 4SPIN TECHNOLOGY
15:20 - 15:40 Abdel-lattif, Abdel-Mohsen
NOVEL CHITIN/CHITOSAN-GlUCAN WOUND DRESSING: ISOLATION, CHARACTERIZATION AND MEDICAL APPLICATIONS
15:40 - 16:10 Coffee break
16:10 - 16:30 Kubáč, Lubomír
CONDUCTIVE POLYMERS – MATERIALS FOR SMART TEXTILE SYSTEMS
16:30 - 16:50 Khajeh Mehrizi, Mohammad
NANOFIBROUS SCAFFOLDS FROM ELECTROSPUN COMPOSITE NANOFIBERS
16:50 - 17:10 Kimmer, Dušan
MODELING AND PREPARATION OF NANOFIBRE AND COMPOSITE NANOSTRUCTURES
17:10 - 17:30 Mousavi Shoushtari, Ahmad
FABRICATION OF MULTI-WALLED CARBON NANOTUBES/POLYVINYLPIRROLIDONE COMPOSITE NANOFIBERS FOR EMI SHIELDING APPLICATION
17:30 - 17:50 Barani, Hossein
ANTIBACTERIAL POLY-L-LACTIDE ACID / POLYVINYL ALCOHOL NANOFIBROUS HYBRID YARNS

* The organizing committee reserves the right to modify the programme
### SECTION 2 - Dyes and dyeing

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<th>Speaker</th>
<th>Title</th>
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<tr>
<td>14:00 - 14:20</td>
<td>Youssef, Yehya</td>
<td>ADDED-VALUE PRODUCTS FOR SUSTAINABLE TEXTILE DEVELOPMENTS IN EGYPT I part</td>
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<tr>
<td>14:20 - 14:40</td>
<td>Youssef, Yehya</td>
<td>ADDED-VALUE PRODUCTS FOR SUSTAINABLE TEXTILE DEVELOPMENTS IN EGYPT II part</td>
</tr>
<tr>
<td>14:40 - 15:00</td>
<td>Barani, Hossein</td>
<td>MODIFIED BENTONITE WITH DIFFERENT SURFACTANT AND USED AS A MORDANT IN WOOL NATURAL DYEING</td>
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<tr>
<td>15:00 - 15:20</td>
<td>Erkan, Gökhan</td>
<td>THE INVESTIGATION OF POSSIBLE USE OF OLIVE OIL PRODUCTION WASTES IN WOOL DYEING</td>
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<td>15:20 - 15:40</td>
<td>Estapé, Núria</td>
<td>ARCHROMA’S EARTHCOLORS</td>
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<td>15:40 - 16:10</td>
<td>Coffee break</td>
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<tr>
<td>16:10 - 16:30</td>
<td>Gomes, Jaime</td>
<td>IMMOBILIZED REACTIVE DYE ON SILICA NANOPARTICLES FOR LEVEL DYEING OF WOOL FIBRES</td>
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<tr>
<td>16:30 - 16:50</td>
<td>Aghhage, Tove</td>
<td>DYING OF POLYESTER FABRIC WITH BIOMATERIAL DYE AND ASSESSMENT OF ENVIRONMENTAL IMPACTS USING LCA TOOL</td>
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<tr>
<td>16:50 - 17:10</td>
<td>Barani, Hossein</td>
<td>APPLICATION OF SILVER NANOPARTICLES AS METAL MORDANT AND ANTIBACTERIAL AGENT IN WOOL NATURAL DYEING</td>
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<td>17:10 - 17:30</td>
<td>Karadag, Recep</td>
<td>SUSTAINABILITY OF NATURAL DYES NOWADAYS</td>
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<td>17:30 - 17:50</td>
<td>Martiníková, Lenka</td>
<td>ALTERBIO – ENVIRONMENT FRIENDLY FUNCTIONAL BARRIER TEXTILES BASED ON PHOTOACTIVE PTHALOCYANINE DYEINGS</td>
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### SECTION 3 - Functional textiles (nano)

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<tr>
<td>14:00 - 14:20</td>
<td>Militký, Jiří</td>
<td>LIGHT SIDE EMITTING TEXTILE STRUCTURES</td>
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<tr>
<td>14:20 - 14:40</td>
<td>Turnáková, Veronika</td>
<td>ADVANCED TEXTILES WITH ENHANCED ELECTRICAL CONDUCTIVITY</td>
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<tr>
<td>14:40 - 15:00</td>
<td>Bele, Vijay</td>
<td>DEVELOPMENT OF SELF REINFORCED POLYPROPYLENE COMPOSITES FROM POLYPROPYLENE MICRO POWDER</td>
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<tr>
<td>15:00 - 15:20</td>
<td>Periyasamy, Aravin Prince</td>
<td>OPTICAL PROPERTIES OF PHOTOCHEMICAL PIGMENT INCORPORATED FABRICS: INFLUENCE OF PIGMENT CONCENTRATIONS</td>
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<tr>
<td>15:20 - 15:40</td>
<td>Rástočná Illová, Dana</td>
<td>NANOMATERIALS AND INNOVATIVE TECHNOLOGIES IN TEXTILE INDUSTRY</td>
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<tr>
<td>15:40 - 16:10</td>
<td>Coffee break</td>
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### SECTION 4 - Production sustainability tools

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<tr>
<td>16:10 - 16:30</td>
<td>Gebhardt, Rainer</td>
<td>MASS CUSTOMIZED PRODUCTS - CHALLENGES TO THE TEXTILE INDUSTRY FOR TOMORROW’S PRODUCTION</td>
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<tr>
<td>16:30 - 16:50</td>
<td>Erth, Holger</td>
<td>REQUIREMENTS FOR R&amp;D IN DIFFERENT TECHNICAL APPLICATIONS</td>
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<tr>
<td>16:50 - 17:10</td>
<td>Braz Costa, Antonio</td>
<td>ENHANCED LIGHT RESPONSIVE FIBRES FOR THERMAL APPLICATIONS</td>
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<td>17:10 - 17:30</td>
<td>Moldovan, Simona</td>
<td>DEMONSTRATION OF CYCLODEXTRIN TECHNIQUES IN TREATMENT OF WASTE WATER IN TEXTILE INDUSTRY TO RECOVER AND REUSE TEXTILE DYES</td>
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<tr>
<td>17:30 - 17:50</td>
<td>Chybová, Olga</td>
<td>PROJECT ECWRTI – DEMONSTRATION OF THE Ecoloro CONCEPT FOR WASTEWATER REUSE IN TEXTILE INDUSTRY</td>
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<tr>
<td>20:00 - 0:00</td>
<td>Social Event</td>
<td>Social Event at The Pardubice Chateau</td>
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### WEDNESDAY JUNE 15

#### Plenary lectures

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<td>9:00 - 9:30</td>
<td>Vermandel, Fanny</td>
<td>DyStar’s CONTRIBUTION TO INNOVATION &amp; BAT FOR THE TEXTILE INDUSTRY</td>
</tr>
<tr>
<td>9:30 - 10:00</td>
<td>Aneja, Arun</td>
<td>TOWARDS A CIRCULAR ECONOMY IN TEXTILES: RESYNTEX AND THE EUROPEAN UNION</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Hinestroza, Juan P.</td>
<td>TEACHING COTTON NEW TRICKS: MOLECULAR STRATEGIES FOR CREATING SMART FIBERS VIA MANIPULATION OF NANOSCALE PHENOMENA</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00 - 11:30</td>
<td>Gedanken, Aharon</td>
<td>MAKING THE HOSPITAL A SAFER PLACE BY THE SONOCHEMICAL COATING OF THE TEXTILES WITH ANTIBACTERIAL NANOPARTICLES</td>
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<tr>
<td>11:30 - 12:00</td>
<td>Hu, Junyan</td>
<td>FABRIC TOUCH COMFORT TESTER: A NEW APPROACH FOR FABRIC-SKIN TOUCH COMFORT CHARACTERIZATION</td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td>Hirogaki, Kazumasa</td>
<td>SYNTHESIS OF NANO-POREOUS ARAMID AEROGEL FIBRE THROGH SUPERCritical DRYING</td>
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<tr>
<td>12:30 - 13:20</td>
<td>Lunch and POSTERS section</td>
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**SECTION 5 - Efficient processing / Testing**

13:20 - 13:40 Csiszár, Emília
INTENSIFICATION OF THE ENZYME-AIDED TEXTILE PROCESSES BY LOW FREQUENCY ULTRASOUND AND NON-THERMAL AIR-PLASMA

13:40 - 14:00 Kämpf, Karin
TENCEL® COMBIPOLISH PROCESS AN ALTERNATIVE FINISHING FOR TENCEL® / COTTON JERSEY

14:00 - 14:20 Khajeh Mehrizi, Mohammad
ALLICIN-CONJUGATED NANOCELLULOSE AS A FINISHING FOR IMPARTING ANTI-BACTERIAL PROPERTIES TO POLYESTER AND CELLULOSE-POLYESTER FABRICS

14:20 - 14:40 Erdogan, Umit Halis
CELLULOSE FROM WASTE JUTE FIBERS: EXTRACTION AND CHARACTERIZATION

14:40 - 15:00 Quill, Jeffrey
ESSENTIALS OF LIGHT STABILITY TESTING OF TEXTILES

15:00 - 15:20 Olszewski, Fred
COLOR COMMUNICATION IN TEXTILE AND AUTOMOTIVE SUPPLY CHAINS

15:20 - 15:40 Zahour, Selim
PHYSICAL CHARACTERIZATION OF A SHEATH/CORE LOW MELT POLYESTER FIBRE USED IN THERMAL INSULATION NONWOVENS

15:40 - 16:00 Coffee break

16:00 - 16:20 Thilagavathi, Govindharajan
DESIGN AND DEVELOPMENT OF EMBROIDERED TEXTILE ELECTRODES FOR ECG AND BREATH RATE MEASUREMENT

16:40 - 17:00 Arumugan, Veerakumar
EFFECT OF 3-DIMENSIONAL KNITTED SPACER FABRIC CHARACTERISTICS ON ITS THERMAL AND COMPRESSION PROPERTIES

17:00 - 17:20 Thilagavathi, Govindharajan
INVESTIGATIONS ON ACOUSTIC PROPERTIES OF CIDIR AND LUFFA FIBROUS MATS

17:20 - 17:40 Nasadil, Petr
SYMBIOSIS OF APPLIED RESEARCH AND TECHNICAL STANDARDISATION

17:40 - 18:00 Visileanu, Emilia
CORRELATIONS OF THE CHARACTERISTICS OF WORK UNIFORMS

**SECTION 6 - Efficient dyestuff’s application / Testing**

13:20 - 13:40 Zhong/Yang, Bowen/ C.D.
ECO-FRIENDLY COOL TRANSFER PRINTING TECHNOLOGY FOR POLYAMIDE FABRIC

13:40 - 14:00 Tolksdorf, Peter
CONTROLLED MINIMAL APPLICATION ON KNITWEAR

14:00 - 14:20 Sirbiladze, Konstantine
LIGHT STABILIZATION OF REACTIVE AZO DYES BY SCREENING OF THE PHOTOCHEMICALLY ACTIVE LIGHT

14:20 - 14:40 Mauro, Fassi
PULSAR: A TRUE REVOLUTION IN YARN PACKAGE DYEING TECHNOLOGY

14:40 - 15:00 Khan, Nayab
COMPARISON OF DIFFERENT METHODS USED FOR THE COLOR MEASUREMENT OF COTTON

15:00 - 15:20 Körner, Michael
FUNCTIONALIZATION OF TEXTILES USING 3D PRINTING – ADD-ON TECHNOLOGY FOR TEXTILE APPLICATIONS TESTING NEW MATERIAL COMBINATIONS

15:20 - 15:40 Yıldırım, Bekir
COLOUR SEGMENTATION IN YARN-DYED WOVEN FABRIC IMAGES BY USING K-MEANS CLUSTERING

15:40 - 16:00 Coffee break

**SECTION 7 - Sustainable processing**

16:00 - 16:20 Němec, Martin
THE FUTURE OF ORGANIC COLORANTS IN CZECH REPUBLIC, INFLUENCE OF EU LEGISLATION, END-USERS REQUIREMENTS AND STANDARDS

16:20 - 16:40 Patra, Arun
COMPARATIVE STUDY OF DYEING PERFORMANCE OF SOYBEAN FIBRE AND WOOL

16:40 - 17:00 Ruse, Mircea
AMPHIPHILIC POLYMERIC MICROCOMPOSITES FOR NATURAL FIBERS DYEING

17:00 - 17:20 Surdu, Lilica
COMPARATIVE LIFE CYCLE ASSESSMENT STUDY FOR PLASMA AND CONVENTIONAL TREATED FABRICS

17:20 - 17:40 Nagy, Henrietta J.
TWO SUSTAINABLE DEVELOPMENTS OF THE CHEMICAL WASTEWATER TREATMENT IN TEXTILE FINISHING

17:40 - 18:00 Bilińska, Lucyna
TEXTILE WASTEWATER TREATMENT SYSTEM BASED ON THE IDEA OF CLOSED WATER CIRCUIT IN THE TEXTILE COMPANY BILIŃSKI POLAND

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**SECTION 8 - Surface textile treatment**

13:20 - 13:40 Perwuelz, Anne  
HYDROPHILIC TO SUPERHYDROPHILIC PET TEXTILE SURFACES

13:40 - 14:00 Haji, Aminoddin  
IMPROVED ATTACHMENT OF TITANIUM DIOXIDE NANOPARTICLES ON COTTON FABRIC USING PLASMA TREATMENT AND CHITOSAN COATING

14:00 - 14:20 Canal, Jose M.  
LOW-TEMPERATURE PLASMA TREATMENTS IN THE DESIGN OF POLYPROPYLENE SURGICAL MESHES FOR HERNIA REPAIR

14:20 - 14:40 Haji, Aminoddin  
EFFECT OF OXYGEN AND NITROGEN PLASMA TREATMENTS ON NATURAL DYING AND TENSILE PROPERTIES OF SILK YARN

14:40 - 15:00 Grancaric, Ana Marija  
ELECTROKINETIC PHENOMENA OF 3-AMINOPROPYLTRIETHOXYSILANE-BASED COTTON FINISHING

15:00 - 15:20 Haji, Aminoddin  
PLASMA AND CHITOSAN TREATMENTS FOR IMPROVEMENT OF NATURAL DYING AND ANTIBACTERIAL PROPERTIES OF COTTON AND WOOL

15:20 - 15:40 Mousavi Shoushtari, Ahmad  
EFFECT OF OXYGEN PLASMA ON SURFACE PROPERTIES AND ADHESION OF CARBON FIBERS TO EPOXY RESIN

15:40 - 16:00 Coffee break

**SECTION 9 - Emerging technologies**

16:00 - 16:20 Martí, Meritxell  
NEW WOOL DRY SCOURING PROCESS

16:20 - 16:40 McNeil, Steven  
TECHNOLOGIES TO ENHANCE THE ENVIRONMENTAL PROFILE OF WOOL FLOORCOVERINGS

16:40 - 17:00 Terzioglu, Fikret  
FUNCTIONAL AND ENERGY EFFICIENT TEXTILE COATING SYSTEMS BY RADIATION INITIATED PHOTOPOLYMERIZATION OF MULTI-FUNCTIONAL ACRYLIC ESTERS

17:00 - 17:20 Lungwitz, Ralf  
UV-LED-CURABLE COATINGS FOR TECHNICAL TEXTILES – AN ECOLOGICAL AND ENERGY EFFICIENT TECHNOLOGY

17:20 - 17:40 Ruano, Marta  
INNOVATIVE ENCAPSULATION PROCEDURES OF BIOCIDES FOR APPLICATION IN TEXTILE PROTECTION AGAINST BEDBUGS AND TICKS

17:40 - 18:00 Csiszár, Emília  
PRODUCTION AND PROPERTIES OF NANOCELLULOSE WHISKERS PREPARED FROM BLEACHED CELLULOSE FIBRES

20:00 - 23:00 Evening Party at the Kunětická Hora Castle

**THURSDAY JUNE 16**

Plenary lectures

9:00 - 9:30 Mehta, Janak  
GLOBAL SCENARIO OF TEXTILE DYESTUFFS

9:30 - 10:00 Tempesti, Aldo  
NEW HORIZONS OF THE ITALIAN TEXTILE AND CLOTHING INDUSTRY

10:00 - 10:30 Nousiainen, Pertti  
NEW ROUTES FROM CELLULOSE TO TEXTILE FIBER AND READY PRODUCTS

10:30 - 11:00 Coffee break

11:00 - 11:30 Filarowski, Andrew  
A MODEL OF EDUCATION FOR YOUNG PEOPLE WORKING IN A DYEHOUSE

11:30 - 12:00 Tajitsu, Yoshiro  
SMART PIEZOELECTRIC FABRIC AND ITS APPLICATION

12:00 - 12:30 Van Parys, Marc  
EMERGING TECHNOLOGIES FOR THE TEXTILE FACTORY OF THE FUTURE

12:30 - 13:30 Lunch and POSTERS section

**SECTION 10 - Functionalisation**

13:30 - 13:50 Rosace, Giuseppe  
NEW HALOGEN-FREE AND ENVIRONMENTALLY-FRIENDLY FLAME RETARDANT FINISHING FOR POLYESTER FABRICS

13:50 - 14:10 Erkan, Gökhan  
ENCAPSULATION OF HYPERICUM PERFORATUM L. AND SANTALUM ALBUM L. OILS BY SPRAY DRYING AND THEIR APPLICATIONS IN TEXTILES

14:10 - 14:30 Rovira, Angels  
INNOVATIVE FUNCTIONAL FINISHES FOR TEXTILES AGAINST BEDBUGS AND TICKS

14:30 - 14:50 Coffee break

14:50 - 15:10 Janíčková, Martina  
DEVELOPMENT OF TICK REPELLENT PROTECTIVE TEXTILE MATERIALS

15:10 - 15:30 Hanczvikkel, Adrienn  
SURVIVABILITY OF HIGH RISK, MULTIRESISTANT BACTERIA ON COTTON TREATED WITH COMMERCIALY AVAILABLE ANTIMICROBIAL AGENTS

15:30 - 16:30 CLOSING CEREMONY

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