PRE-LIMINARY PROGRAMME * 

**MONDAY JUNE 13**

14:00 - 18:00 Registration
19:00 - 22:00 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 Walter, Lutz

[The European Technology Platform for the Future of Textiles and Clothing, Belgium]

CAN THE EUROPEAN TEXTILE INNOVATION ECOSYSTEM SUCCESSFULLY MEET THE CHALLENGES OF RAPIDLY EVOLVING GLOBAL MARKETS?

10:10 - 11:30 Coffee break

11:30 - 11:50 Braz Costa, Antonio

[CeNTI - Centre for Nanotechnology and Smart Materials, Portugal]

TEXTRANET – A SYSTEMATIC APPROACH TO THE INTERNATIONAL AND INTERDISCIPLINARY INNOVATION ACTIVITIES IN TEXTILES

11:50 - 12:10 Zschenderlein, Dirk

[CeNTI - Centre for Nanotechnology and Smart Materials, Portugal]

CHALLENGE FUTURE – INDUSTRY 4.0 IN THE TEXTILE INDUSTRY

12:10 - 12:40 Beran, Miloš

[ČTPT and CLUTEX, Czech Republic]

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 Zápotocký, Vojtěch

[Contipro Pharma a.s., Czech Republic]

NEW MEDICAL STAPLE MICRO-FIBRES

14:20 - 14:40 Pitucha, Tomáš

[Contipro Pharma a.s., Czech Republic]

MANUFACTURING, TEXTILE PROCESSING AND PROPERTIES OF HYALURONAN BASED MONOFILAMENT FIBERS

14:40 - 15:00 Pokorný, Marek

[Contipro Pharma a.s., Czech Republic]

KEY ASPECTS OF ELECTROSTATIC SPINNING OF BIO-POLYMER NANOFIBRES

15:00 - 15:20 Koutkova, Katerina

[Contipro Biotech, Czech Republic]

SCALE-UP OF 4SPIN TECHNOLOGY

15:20 - 15:40 Abdel-lattif, Abdel-Mohsen

[CEITEC-BUT University, Czech Republic]

NOVEL CHITIN/CHITOSAN-GLUCAN WOUND DRESSING: ISOLATION, CHARACTERIZATION AND MEDICAL APPLICATIONS

15:40 - 16:10 Coffee break

16:10 - 16:30 Kubáč, Lubomír

[Centre for Organic Chemistry Ltd., Czech Republic]

CONDUCTIVE POLYMERS – MATERIALS FOR SMART TEXTILE SYSTEMS

16:30 - 16:50 Khajeh Mehrizi, Mohammad

[Yazd University, Iran]

NANOFIBROUS SCAFFOLDS FROM ELECTROSPUN COMPOSITE NANOFIBERS

16:50 - 17:10 Kimmer, Dušan

[SPUR a.s., Czech Republic]

MODELING AND PREPARATION OF NANOFIBRE AND COMPOSITE NANOSTRUCTURES

17:10 - 17:30 Mousavi Shoushtari, Ahmad

[Amirkabir University of Technology, Iran]

FABRICATION OF MULTI-WALLED CARBON NANOTUBES/POLYVINYLPYRROLOIDONE COMPOSITE NANOFIBERS FOR EMI SHIELDING APPLICATION

17:30 - 17:50 Barani, Hossein

[University of Birjand, Iran]

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

14:00 - 14:30  Youssef, Yehya  (National Research Centre, Egypt)
ADDED-VALUE PRODUCTS FOR SUSTAINABLE TEXTILE DEVELOPMENTS IN EGYPT

14:30 - 15:00  Mehta, Janak  (Dyestuffs Manufacturers Association of India, India)
GLOBAL SCENARIO OF TEXTILE DYESTUFFS

15:00 - 15:20  Erkan, Gökhan  (Dokuz Eylül University, Turkey)
THE INVESTIGATION OF POSSIBLE USE OF OLIVE OIL PRODUCTION WASTES IN WOOL DYEING

15:20 - 15:40  Estapé, Núria  (Archroma Distribution and Management Germany GmbH, Austria)
ARCHROMA’S EARTHCOLORS

15:40 - 16:10  Coffee break

16:10 - 16:30  Gomes, Jaime  (University of Minho, Portugal)
DEVELOPMENT ON DYING AND PRINTING WITH DYES IN NANOPARTICLES

16:30 - 16:50  Aghnaye, Tove  (ENSAT-GEMTEX, France)
DYEING OF POLYESTER FABRIC WITH BIOLBASED DYE AND ASSESSMENT OF ENVIRONMENTAL IMPACTS USING LCA TOOL

16:50 - 17:10  Martiníková, Lenka  (INOTEX spol. s r.o., Czech Republic)
ALTERBIO – ENVIRONMENT FRIENDLY FUNCTIONAL BARRIER TEXTILES BASED ON PHOTOACTIVE PHTALOCYANINE DYEINGS

17:10 - 17:30  Karadag, Recep  (Marmara University, Faculty of Fine Arts, Turkey)
SUSTAINABILITY OF NATURAL DYES NOWADAYS

17:30 - 17:50  Moldovan, Simona  (AITEX, Spain)
DEMONSTRATION OF NEW NATURAL DYES FROM ALGAE AS SUBSTITUTION OF SYNTHETIC DYES ACTUALLY USED BY TEXTILE INDUSTRIES, SEACOLORS PROJECT

SECTION 3 - Functional textiles (nano)

14:00 - 14:20  Miličková, Jiří  (Technical University of Liberec, Czech Republic)
LIGHT SIDE EMITTING TEXTILE STRUCTURES

14:20 - 14:40  Tůnáková, Veronika  (Technical University of Liberec, Czech Republic)
ADVANCED TEXTILES WITH ENHANCED ELECTRICAL CONDUCTIVITY

14:40 - 15:00  Bele, Vijay  (Technical University of Liberec, Czech Republic)
DEVELOPMENT OF SELF REINFORCED POLYPROPYLENE COMPOSITES FROM POLYPROPYLENE MICRO POWDER

15:00 - 15:20  Periysamany, Aravin Prince  (Technical University Liberec, Czech Republic)
OPTICAL PROPERTIES OF PHOTOCHROMIC PIGMENT INCORPORATED FABRICS: INFLUENCE OF PIGMENT CONCENTRATIONS

15:20 - 15:40  Rástočná Illová, Dana  (VÚTCH-CHEMITEX, spol. s r.o., Slovakia)
NANOMATERIALS AND INNOVATIVE TECHNOLOGIES IN TEXTILE INDUSTRY

15:40 - 16:10  Coffee break

SECTION 4 - Production sustainability tools

16:10 - 16:30  Gebhardt, Rainer  (Saxon Textile Research Institut Chemnitz (STFI), Germany)
MASS CUSTOMIZED PRODUCTS - CHALLENGES TO THE TEXTILE INDUSTRY FOR TOMORROW’S PRODUCTION

16:30 - 16:50  Moldovan, Simona  (AITEX, Spain)
DEMONSTRATION OF CYCLODEXTRIN TECHNIQUES IN TREATMENT OF WASTE WATER IN TEXTILE INDUSTRY TO RECOVER AND REUSE TEXTILE DYES

16:50 - 17:10  Braz Costa, Antonio  (CenTI - Centre for Nanotechnology and Smart Materials, Portugal)
ENHANCED LIGHT RESPONSIVE FIBRES FOR THERMAL APPLICATIONS

17:10 - 17:30  Erth, Holger  (Textilausraustung Pfand GmbH, Germany)
REQUIREMENTS FOR R&D IN DIFFERENT TECHNICAL APPLICATIONS

17:30 - 17:50  Chybová, Olga  (INOTEX spol. s r.o., Czech Republic)
“ECWRTI” AND “SET” – THE PROJECTS SUPPORTING THE EFFICIENT USE OF RESOURCES IN TEXTILE INDUSTRY

17:50 - 18:10  Kupka, Karel  (TriloByte Statistical Academy, Czech Republic)
MODELING OF MULTICOMPONENT TEXTILE WASTE RECYCLING

20:00 - 24:00  Social Event at The Pardubice Chateau

WEDNESDAY JUNE 15

Plenary lectures

9:00 - 9:30  Vermandel, Fanny  (DyStar Colours Distribution GmbH, Germany)
DyStar’s CONTRIBUTION TO INNOVATION & BAT FOR THE TEXTILE INDUSTRY

9:30 - 10:00  Aneja, Arun  (East Carolina University, USA)
TOWARDS A CIRCULAR ECONOMY IN TEXTILES: RESYNTEX AND THE EUROPEAN UNION

10:00 - 10:30  Hinestroza, Juan P.  (Cornell University, USA)
TEACHING COTTON NEW TRICKS: MOLECULAR STRATEGIES FOR CREATING SMART FIBERS VIA MANIPULATION OF NANOSCALE PHENOMENA

10:30 - 11:00  Coffee break

11:00 - 11:30  Gedanken, Aharon  (Bar-Ilan University, Israel)
MAKING THE HOSPITAL A SAFER PLACE BY THE SONOCHEMICAL COATING OF THE TEXTILES WITH ANTIBACTERIAL NANO PARTICLES

11:30 - 12:00  Hirokage, Kazumasa  (University of Fukui, Japan)
SYNTHESIS OF NON-POUROUS ARAMID AEROGEL FIBRE THROUGH SUPERCRITICAL DRYING

12:00 - 13:00  Lunch and POSTERS section

* The organizing committee reserves the right to modify the programme
SECTION 5 - Efficient processing / Testing

13:00 - 13:20 Vik, Michal (The European Technology Platform for the Future of Textiles and Clothing, Belgium) NOVEL METHOD OF IN-LINE COLOR MEASUREMENT

13:20 - 13:40 Kämpf, Karin (Lenzing AG, Austria) TENCEL® COMBIPOLISH PROCESS AN ALTERNATIVE FINISHING FOR TENCEL®/COTTON JERSEY

13:40 - 14:00 Khajeh Mehrizi, Mohammad (Yazd University, Iran) ALLUCON-CONJUGATED NANOCLOSELULOSE AS A FINISHING FOR IMPARTING ANTIBACTERIAL PROPERTIES TO POLYESTER AND CELLULOSE-POLYESTER FABRICS

14:00 - 14:20 Erdogan, Umit Halis (Dokuz Eylul University, Turkey) CELLULOSE FROM WASTE JUTE FIBERS: EXTRACTION AND CHARACTERIZATION

14:20 - 14:40 Quill, Jeffrey (Q-LAB Corp., USA) ESSENTIALS OF LIGHT STABILITY TESTING OF TEXTILES

14:40 - 15:00 Olschewski, Fred (DATACOLOR GmbH, Germany) COLOR COMMUNICATION IN TEXTILE AND AUTOMOTIVE SUPPLY CHAINS

15:00 - 15:20 Zahour, Sélim (University and INSA of Rouen / PEG S.A.S, France) PHYSICAL CHARACTERIZATION OF A SHEATH/CORE LOW MELT POLYESTER FIBRE USED IN THERMAL INSULATION NONWOVENS

15:20 - 15:40 Coffee break

15:40 - 16:00 Krémenáková, Dana (Technical University of Liberec, Czech Republic) PREDICTION OF TEXTILE STRUCTURES’ THERMAL COMFORT

16:00 - 16:20 Thilagavathi, Govindharajan (PSG College of Technology, India) DESIGN AND DEVELOPMENT OF EMBROIDERED TEXTILE ELECTRODES FOR ECG AND BREATH RATE MEASUREMENT

16:20 - 16:40 Arumugan, Veerakumar (Technical University of Liberec, Czech Republic) EFFECT OF 3-DIMENSIONAL KNITTED SPACER FABRIC CHARACTERISTICS ON ITS THERMAL AND COMPRESSION PROPERTIES

16:40 - 17:00 Thilagavathi, Govindharajan (PSG College of Technology, India) INVESTIGATIONS ON ACOUSTIC PROPERTIES OF COIR AND JUTE FIBROUS MATS

17:00 - 17:20 Nazadz, Petr (Textile Testing Institute, Czech Republic) SYMBIOSIS OF APPLIED RESEARCH AND TECHNICAL STANDARDISATION

17:20 - 17:40 Visileanu, Emilia (INCDTP, Romania) CORRELATIONS OF THE CHARACTERISTICS OF WORK UNIFORMS

SECTION 6 - Efficient dyestuff’s application / Testing

13:00 - 13:20 Zhong/Yang, Bowen/ C.D. (Cooltrans/OGD, China/Taiwan) ECO-FRIENDLY COOL TRANSFER PRINTING TECHNOLOGY FOR POLYAMIDE FABRIC

13:20 - 13:40 Tolksdorf, Peter (A. Monforts Textilmaschinen GmbH & Co.KG, Germany) CONTROLLED MINIMAL APPLICATION ON KNITWEAR

13:40 - 14:00 Sirbiladze, Konstantine (Akaki Tsereteli State University, Georgia) LIGHT STABILIZATION OF REACTIVE AZO DYES BY SCREENING OF THE PHOTOCHEMICALLY ACTIVE LIGHT

14:00 - 14:20 Mauro, Fassi (LORIS BELLINI SRL, Italy) PULSAR: A TRUE REVOLUTION IN YARN PACKAGE DYING TECHNOLOGY

14:20 - 14:40 Khan, Nayab (Technical University of Liberec, Czech Republic) COMPARISON OF DIFFERENT METHODS USED FOR THE COLOR MEASUREMENT OF COTTON

14:40 - 15:00 Karger, Michael (Hochschule Niederrhein - University of Applied Sciences, Germany) FUNCTIONALIZATION OF TEXTILES USING 3D PRINTING – ADD-ON TECHNOLOGY FOR TEXTILE APPLICATIONS TESTING NEW MATERIAL COMBINATIONS

15:00 - 15:20 Yıldırım, Bekir (Erciyes University, Turkey) COLOUR SEGMENTATION IN YARN-DYED WOVEN FABRIC IMAGES BY USING K-MEANS CLUSTERING

15:20 - 15:40 Coffee break

SECTION 7 - Sustainable processing

15:40 - 16:00 Némec, Martin (Synthesia a.s., Czech Republic) THE FUTURE OF ORGANIC COLORANTS IN CZECH REPUBLIC, INFLUENCE OF EU LEGISLATION, END-USERS REQUIREMENTS AND STANDARDS

16:00 - 16:20 Patra, Arun (The Technological Institute of Textile & Sciences, India) COMPARATIVE STUDY OF DYEING PERFORMANCE OF SOYBEAN FIBRE AND WOOL

16:20 - 16:40 Ruse, Mircea (ICECHIM, Romania) AMPHIPHIILIC POLYMERIC MICROCOMPOSITES FOR NATURAL FIBERS DYEING

16:40 - 17:00 Sursu, Liliandra (INCDTP, Romania) COMPARATIVE LIFE CYCLE ASSESSMENT STUDY FOR PLASMA AND CONVENTIONAL TREATED FABRICS

17:00 - 17:20 Nagy, Henrietta J. (Budapest University of Technology and Economics, Hungary) TWO SUSTAINABLE DEVELOPMENTS OF THE CHEMICAL WASTEWATER TREATMENT IN TEXTILE FINISHING

17:20 - 17:40 Biliriska, Lucyna (Textile Company Bilirski, Poland) TEXTILE WASTEWATER TREATMENT SYSTEM BASED ON THE IDEA OF CLOSED WATER CIRCUIT IN THE TEXTILE COMPANY BILIŃSKI POLAND

* The organizing committee reserves the right to modify the programme
### SECTION 8 - Surface textile treatment

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/University</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Perwaelt, Anne</td>
<td>ENSAIT (France)</td>
<td>HYDROPHILIC TO SUPERHYDROPHILIC PET TEXTILE SURFACES</td>
</tr>
<tr>
<td>13:20</td>
<td>Haji, Aminoddin</td>
<td>Islamic Azad University, Birjand Branch, Iran</td>
<td>IMPROVED ATTACHMENT OF TITANIUM DIOXIDE NANOPARTICLES ON COTTON FABRIC USING PLASMA TREATMENT AND CHITOSAN COATING</td>
</tr>
<tr>
<td>13:40</td>
<td>Canal, Jose M.</td>
<td>UPC (Polytechnical University of Catalonia), Spain</td>
<td>LOW-TEMPERATURE PLASMA TREATMENTS IN THE DESIGN OF POLYPROPYLENE SURGICAL MESHES FOR HERNIA REPAIR</td>
</tr>
<tr>
<td>14:00</td>
<td>Haji, Aminoddin</td>
<td>Islamic Azad University, Birjand Branch, Iran</td>
<td>EFFECT OF OXYGEN AND NITROGEN PLASMA TREATMENTS ON NATURAL DYEING AND TENISILE PROPERTIES OF SILK YARN</td>
</tr>
<tr>
<td>14:20</td>
<td>Grancaric, Ana Marjia</td>
<td>University of Zagreb, Croatia</td>
<td>ELECTROKINETIC PHENOMENA OF 3-AMINOPROPYLTRIETHOXYSILANE-BASED COTTON FINISHING</td>
</tr>
<tr>
<td>14:40</td>
<td>Canal, Jose M.</td>
<td>UPC (Polytechnical University of Catalonia), Spain</td>
<td>LOW-TEMPERATURE PLASMA TREATMENTS IN THE DESIGN OF POLYPROPYLENE SURGICAL MESHES FOR HERNIA REPAIR</td>
</tr>
<tr>
<td>15:00</td>
<td>Haji, Aminoddin</td>
<td>Islamic Azad University, Birjand Branch, Iran</td>
<td>EFFECT OF OXYGEN PLASMA SURFACE PROPERTIES AND ADHESION OF CARBON FIBERS TO EPOXY RESIN</td>
</tr>
</tbody>
</table>

### SECTION 9 - Emerging technologies

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/University</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:40</td>
<td>Martí, Meritxell</td>
<td>Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Spain</td>
<td>NEW WOOL DRY SCOURING PROCESS</td>
</tr>
<tr>
<td>16:00</td>
<td>McNeil, Steven</td>
<td>AgResearch, New Zealand</td>
<td>TECHNOLOGIES TO ENHANCE THE ENVIRONMENTAL PROFILE OF WOOL FLOORCOVERINGS</td>
</tr>
<tr>
<td>16:20</td>
<td>Terzioglu, Fikret</td>
<td>Hochschule Niederrhein - Research Institute for Textile and Clothing (FTB), Germany</td>
<td>FUNCTIONAL AND ENERGY EFFICIENT TEXTILE COATING SYSTEMS BY RADIATION INITIATED PHOTOPOLYMERIZATION OF MULTI-FUNCTIONAL ACRYLIC ESTERS</td>
</tr>
<tr>
<td>16:40</td>
<td>Lungwitz, Ralf</td>
<td>Saxton Textile Research Institut Chemnitz (STFI), Germany</td>
<td>UV-LED-CURABLE COATINGS FOR TECHNICAL TEXTILES – AN ECOLOGICAL AND ENERGY EFFICIENT TECHNOLOGY</td>
</tr>
<tr>
<td>17:00</td>
<td>Ruano, Marta</td>
<td>LEITAT Technological Center, Spain</td>
<td>INNOVATIVE ENCAPSULATION PROCEDURES OF BIODIES FOR APPLICATION IN TEXTILE PROTECTION AGAINST BEDBUGS AND TICKS</td>
</tr>
<tr>
<td>17:20</td>
<td>Csiszár, Emilia</td>
<td>Budapest University of Technology and Economics, Hungary</td>
<td>PRODUCTION AND PROPERTIES OF NANOCPELULOSE WHISKERS PREPARED FROM BLEACHED CELLOUSIC FIBRES</td>
</tr>
</tbody>
</table>

### THURSDAY JUNE 16

#### Plenary lectures

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/University</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Hu, Junyan</td>
<td>Hong Kong Polytechnic University, Hong Kong</td>
<td>FABRIC TOUCH COMFORT TESTER: A NEW APPROACH FOR FABRIC-SKIN TOUCH COMFORT CHARACTERIZATION</td>
</tr>
<tr>
<td>9:30</td>
<td>Tempesti, Aldo</td>
<td>TexClubTec, Italy</td>
<td>NEW HORIZONS OF THE ITALIAN TEXTILE AND CLOTHING INDUSTRY</td>
</tr>
<tr>
<td>10:00</td>
<td>Nousiainen, Pertti</td>
<td>Tampere University of Technology, Finland</td>
<td>NEW ROUTES FROM CELLULOSE TO TEXTILE FIBER AND READY PRODUCTS</td>
</tr>
<tr>
<td>10:30</td>
<td>Van Parys, Marc</td>
<td>UNITEX - TexZeppelin, Belgium</td>
<td>EMERGING TECHNOLOGIES FOR THE TEXTILE FACTORY OF THE FUTURE</td>
</tr>
<tr>
<td>11:00</td>
<td>Filarowski, Andrew</td>
<td>Society of Dyers and Colourists, UK</td>
<td>A MODEL OF EDUCATION FOR YOUNG PEOPLE WORKING IN A DYEHOUSE</td>
</tr>
<tr>
<td>11:30</td>
<td>Tajitsu, Yoshiro</td>
<td>Kansai University, Japan</td>
<td>SMART PIEZOELECTRIC FABRIC AND ITS APPLICATION</td>
</tr>
<tr>
<td>12:00</td>
<td>Van Parys, Marc</td>
<td>UNITEX - TexZeppelin, Belgium</td>
<td>EMERGING TECHNOLOGIES FOR THE TEXTILE FACTORY OF THE FUTURE</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch and POSTERS section</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### SECTION 10 - Functionalisation

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution/University</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30</td>
<td>Rosace, Giuseppe</td>
<td>University of Bergamo, Italy</td>
<td>NEW HALOGEN-FREE AND ENVIRONMENTALLY-FRIENDLY FLAME RETARDANT FINISHING FOR POLYESTER FABRICS</td>
</tr>
<tr>
<td>13:50</td>
<td>Erkan, Gökkan</td>
<td>Dokuz Eylul University, Turkey</td>
<td>ENCAPSULATION OF HYPERICUM PERFORATUM L. AND SANTALUM ALBUM L. OILS BY SPRAY DRYING AND THEIR APPLICATIONS IN TEXTILES</td>
</tr>
<tr>
<td>14:10</td>
<td>Rovira, Angels</td>
<td>LEITAT Technological Center, Spain</td>
<td>INNOVATIVE FUNCTIONAL FINISHES FOR TEXTILES AGAINST BEDBUGS AND TICKS</td>
</tr>
<tr>
<td>14:30</td>
<td>Van Parys, Marc</td>
<td>UNITEX - TexZeppelin, Belgium</td>
<td>EMERGING TECHNOLOGIES FOR THE TEXTILE FACTORY OF THE FUTURE</td>
</tr>
</tbody>
</table>

### CLOSING CEREMONY

XXIVth International IFATCC Congress is financially supported by:

* The organizing committee reserves the right to modify the programme