

## Program of CIRATM-10

Monastir & Montreal, November 09-11, 2023

<b>Thursday, November 09, 2023</b>	
12h: 00 - 14h: 00	<b>WELCOME &amp; REGISTRATION</b>
14h: 15 - 14h: 45	<b>OPENING CEREMONY</b>
14h: 45 - 21h: 00	<b>SESSION CO-ORGANIZED WITH VESTECHPRO: Montreal &amp; Monastir - in Live Streaming</b> <b>Textile Circularity: Technologies, advances and challenges for a more sustainable textile &amp; clothing sector</b>
14h: 45 - 15h: 10	<b>PLENARY CONFERENCE 1</b> Prof. Andrée - Anne Lemieux IFM – Kering, Paris- France <b>“Textile Waste - The situation in Southern hemisphere”</b>
15h : 15 - 16h : 30	<b>Session 1: “Processing and recycling of textile waste”</b> Paulette KACI, General Director, Vestechpro, Canada
15h: 15 - 15h : 30	<b>“Mechanical recycling of textile waste: A new resource for composite bricks”</b> Prof. José Carlos Ferreira – Vestechpro, Canada
15h: 30 - 15h: 45	<b>“Innovative practices for achieving a new artificial leather circular sector”</b> Prof. Slah Msahli - LGTex, Monastir University, Tunisia
15h: 45 - 16h: 00	<b>“Transforming textile waste into sustainable construction materials: A step towards circular economy”</b> Prof. Hamid Lamoudan – University Of Quebec les Trois-Rivières, Canada
16h: 00 - 16h: 15	<b>“Recycling of textile fibers as a sustainable feedstock for molded pulp packaging”</b> Prof. Tarik Jabrane – Innofibre, Innovation Center for Cellulosic Products, Canada
16h: 15 - 16h: 30	<b>“Recycling of waste cotton fabrics by dissolution and dissociation”</b> Prof. Yixiang Wang, University of McGill, Canada
16h: 30 - 16h: 50	<b>COFFEE BREAK: ON SITE</b>
16h: 50 - 18h: 10	<b>Session 2:</b> <b>“The need for data for the transition from the clothing and textile sector to the circular economy”</b> Paulette KACI, General Director, Vestechpro, Canada
16h: 50 - 17h: 10	<b>“Textile waste in Ontario, Canada: Opportunities for reuse and recycling”</b> Prof. Sabine Weber - Seneca College in the School of Fashion, Canada
17h: 10 - 17h: 30	<b>“Portrait of textile consumption in Montreal”</b> Prof. Ennouri Triki, Vestechpro, Canada
17h: 30 - 17h: 50	<b>“A sustainable approach for textile waste recycling in Tunisia”</b> Prof. Mohamed ben Hassen, LGTex, University of Monastir, Tunisia
17h: 50 - 18h: 10	<b>“Assessing the social impact of CE in the textiles and apparel value chain- Getting the data right and getting the right data”</b> Prof. Lis J. Suarez-Visbal, Utrecht University, Netherlands
19h: 00 – 21h: 00	<b>Round table: Circular fashion industry: Myth or Reality?</b> Montreal & Monastir - in Live Streaming

Friday, November 10, 2023	
Since 08h: 00	<b>WELCOME &amp; REGISTRATION</b>
09h: 00 – 09h: 30	<p><b>PLENARY CONFERENCE 1</b>  <b>Prof. Chokri CHERIF</b>            TÜ Dresden, Germany</p> <p><b>« Fiber-based sensor and actuator materials for low-latency tactile internet based on 6G and with human-in-the-loop »</b></p>
09h: 30 – 10h: 00	<p><b>PLENARY CONFERENCE 2</b>  <b>Prof. Philippe LAVALLE</b>            Biomaterials and Bioengineering, Centre de Recherche en Biomédecine de Strasbourg, Strasbourg, France</p> <p><b>« Supramolecular coatings and hydrogels with antimicrobial properties: from science to business »</b></p>
10h: 00 – 10h: 30	<p><b>PLENARY CONFERENCE 3</b>  <b>Prof. Steffen Müller-Probandt</b>            DIENES Apparatebau GmbH, Germany</p> <p><b>«Developing spinning technology for textile recycling needs industry 4.0»</b></p>
10h: 30 – 11h: 00	<b>COFFEE BREAK</b>

<b>ORAL COMMUNICATIONS</b>			
11h: 00 – 11h: 50	<p><b>Session 3:</b>  <b>Technical and Smart Textiles</b></p> <p><b>Prof. Chorki CHERIF &amp; Prof. Steffen MÜLLER-PROBANDT</b></p>	<p><b>Session 4:</b>  <b>Comfort in textile and clothing</b></p> <p><b>Prof. Amine HADJ TAIEB &amp; Prof. Taoufik Harizi</b></p>	<p><b>Session 5:</b>  <b>Sustainable products and processes</b></p> <p><b>Prof. Faouzi SAKLI &amp; Prof. Mohamed BEN HASSEN</b></p>
11h: 00 – 11h: 10	<b>TMST 29:</b> "Towards manufacturing self-regulating PPE for extreme heat" Jung C. , Girault E., Leclinche F., Covarel G., Dréan E.	<b>FACO 17*:</b> "Comparative investigation of cut resistance and thermo-physiological-comfort properties of gloves". Jamshaid H., Muhammad N	<b>SMP 6:</b> "Application of the reba method to assess ergonomics and musculoskeletal risk in feed of the arm sewing machine workstations: a case study in garment manufacturing". Jaffel N., Babay A., Hafsa W., Faouzi Sakli F.
11h: 10 – 11h: 20	<b>TMST 17:</b> "Study of absolute humidity on a textile triboelectric generator". Galata SF., Repoulias A., Ertekin M., Pesez J., Anicaux C., Vassiliadis S. and Marmarali A.	<b>FACO 9:</b> "Breathability and moisture management properties of a double-face denim fabric". Algamdy H	<b>DIMA 3:</b> "Sustainable transport in the apparel supply chain using fuzzy-modified dijkstra algorithm". Lahdhiri M., Jmali M., Babay A.
11h: 20 - 11h: 30	<b>TMST 20:</b> "In vitro performance of a biomedical textile treated with nitrogen N2 jet technology". Zidi M., Khoffi F., Khalsi Y., Tazibt A., Girault E., Barbet R., Heim F., Msahli S.	<b>FACO 10:</b> Design of flex fit well-being descriptors. Baghdadi R., Alibi H., Fayala F., Zeng X.	<b>SMP 4:</b> "Sustainable dyeing process of cotton fabrics with mixtures of reactive dyes: reconstruction and reuse of exhausted dyebaths". Moussa R., Souissi M., Chaouch S., Moussa A.
11h: 30 - 11h: 40	<b>TMST 24:</b> "Stent grafts from polymeric material: a novel design to improve the implant durability". Asaad AR., Heim F., Jung C.	<b>FACO 7:</b> "Statistical analysis of judgment of thermal well-being descriptors". Alibi H., Baghdadi R., Fayala F., Zeng X. Z.	<b>SMP 26:</b> "Sustainability and textile potential of tannery wool from chemical processing to textile valorization and dyeing performance". Abdelaoui O., Harizi T., Msahli S.
11h: 40 - 11h: 50	<b>Questions session</b>	<b>Questions session</b>	<b>Questions session</b>
11h: 50 - 12h: 40	<p><b>Session 6:</b>  <b>Waste and water treatment processes</b></p> <p><b>Prof. Nizar MEKSI &amp; Prof. Saber BEN ABDESSLAM</b></p>	<p><b>Session 7:</b>  <b>Futuristic Design</b></p> <p><b>Prof. Amine HADJ TAIEB &amp; Prof. Taoufik HARIZI</b></p>	<p><b>Session 8:</b>  <b>Simulation, modeling in textile materials and processes</b></p> <p><b>Prof. Cesar SEGOVIA &amp; Prof. Slah MSAHLI</b></p>
11h: 50 – 12h: 00	<b>TRT1*:</b> "Treatment and reuse of textile wastewater using membrane technology " (1) Ben Amar R.	<b>BMC 4:</b> " Biodesign towards a prosperous future for humanity and nature. Koubaa S., Hadj Taieb A., Abdennadher D.	<b>FACO 15:</b> "Systemic analysis of factors influencing efficient garment production in southwest area of Nigeria". Ajila KO.

12h: 00 - 12h: 10	<b>TRT1*</b> : "Treatment and reuse of textile wastewater using membrane technology" (2) <b>Ben Amar R.</b>	<b>TMST 9</b> : "Design process for textile facades and the various stakeholders involved in the production". <b>Turki W., Hadj Taieb A.</b>	<b>DIMA 2</b> : "Mass customization tools: industry 4.0 and 3d simulation". <b>Louati A., Hadj Taieb A.</b>
12h: 10 - 12h: 20	<b>SMP 25</b> : "Removal of textile pollutant using activated carbon: modelling and interpretation" <b>Sellaoui I., Abdelmottaleb B.L.</b>	<b>SMP 17</b> : "Living design: valuing nature instead of exploitation". <b>Fakhfakh M., Hadj Taieb A.</b>	<b>SMP 1</b> : "Prediction of the most economically advantageous color formulation". <b>Chaouch S., Moussa A. and Ladhari N.</b>
12h: 20 - 12h: 30	<b>SMP 23</b> : "Copper and nickel removal from aqueous solutions using functionalized polyacrylonitrile fibers: equilibrium, kinetic, and thermodynamic studies". <b>Saadouni M., Nadi A., Cherkaoui O., Tahiri M.</b>	<b>TMST 11</b> : "Design of durable and comfortable meta-textile for functional applications". <b>Zribi H., Hadj Taieb A., Ignacio G., Ardanuy M.</b>	<b>TMST 14</b> : "Uniaxial tensile properties of Dorlastan® core spun yarns: Effects of yarn count, Dorlastan® Draft, and Dorlastan® linear density on the shape of stress-strain curves". <b>Helali H., Babay A., Jaouchi B., Msahli S., Cheikhrouhou M.</b>
12h: 30 - 12h: 40	Questions session	Questions session	Questions session
12h: 40 - 14h: 00	<b>LUNCH</b>		

14: 00 -14h: 30	<b>SESSION CO-ORGANIZED WITH CETELOR IN MONASTIR: Montréal &amp; Monastir in Live Streaming</b>  <b>PLENARY CONFERENCE 1</b> <b>Prof. Nicolas BROSSÉ</b> University of Lorraine, LERMAB  « Refining natural fibers: New advances »
14h: 30 -15h: 00	<b>PLENARY CONFERENCE 2</b>  <b>Prof. César SEGOVIA</b> University of Lorraine, LERMAB  « Variability of natural fibers and their specific performance in textile applications »
15h: 00 -15h: 30	<b>PLENARY CONFERENCE 3</b>  <b>Prof. Naceur BEN BELGACEM</b> University of Grenoble Alpes, France  « Cellulose as a serious candidate in circular economy »
15h: 30 - 16h: 10	<b>ORAL COMMUNICATIONS</b>
15h: 30 - 16h: 00	Session 9: Biobased fibers and materials  <b>Prof. Mohamed Ali HAMDÍ &amp; Prof. César SEGOVIA</b>
15h: 30 - 15h: 40	<b>BMC 11*</b> : "Feasibility of designing a nettle thread from an artificial plantation" <b>Vibert CC</b>
15h: 40 - 15h: 50	<b>TMST 31</b> : "Thermal insulation panels based on posidonia oceanica fibrous wastes" <b>Zouari R., Segovia C., Ayadi M., Baffoun A., Brosse N., Msahli S.</b>
15h: 50 - 16h: 00	<b>BMC 13*</b> : "Flax/polypropylene composites for lightened structures: Multiscale analysis of process and fibre parameters". <b>Doumbia Awa S., Castro M., Jouannet D., Kervoëlen A., Falher T., Cauret L., Bourmaud A.</b> (On line)
16h: 00 -16h: 10	Questions session
16h: 10 – 16h: 40	<b>COFFEE BREAK</b>
16h: 40 - 17h: 10	Session 10: Valorization of vegetal fibers & Nonwovens  <b>Prof. Mohamed BEN HASSEN &amp; Prof. Omar CHARKAOUI</b>
16h: 40 -16h: 50	<b>TMST 10</b> : "Valorization of posidonia oceanica, alfa and hemp fibers as thermal insulation and sound absorber panels" <b>Ayadi M., Segovia C., Zouari R., Baffoun A., Brosse N., Msahli S.</b>
16h: 50 -17h: 00	<b>TMST 13</b> : "Development of a Multifonctionnel Wet Laid Nonwoven from Washintognia palm fiber and CMC Binder". <b>Bouaziz M., Zennen S., Ben Hassan M.</b>
17h: 00 - 17h: 10	<b>TMST 32</b> : "Driving Circular Economy from crops by products to bio Based materials", <b>Ragoubi M.</b>
17h: 10 - 17h: 20	Questions session



POSTERS SESSION		
Prof. Nicolas BROSSE (On line)	Prof. Philippe LAVALLE	Prof. Saber BEN ABDESSLAM
<p><b>FACO 1:</b> "A study of simplicity apparel using magnet as the closure for the elderly in Vietnam". <b>Anh Dao Tran T., Phuong Duyen Mai T.</b></p>	<p><b>SMP 24:</b> "Characterization of chicken white eggshells for possible textile applications". <b>Haddaji H., Jaouachi B., Cheriaa R.</b></p>	<p><b>SMP 10:</b> "Participatory risk assessment - deparis: a case study in a tunisian garment manufacturing". <b>Jaffel N., Mâatoug N., Sakli F.</b></p>
<p><b>TMST 16:</b> "Development of an instrument for testing moisture regain of textiles towards defining cotton content in fabrics". <b>T. Anh Dao Tran, H. Van Tri, T.V.T. Phuc</b></p>	<p><b>SMP 2:</b> "Prediction of dye mixture colorfastness: a preliminary study". <b>Chaouch S., Moussa A., Ladhari N.</b></p>	<p><b>FACO 3:</b> "Comfort evaluation of close-fitting clothing using virtual try-on technology". <b>Ancutiene K., Gulbiniene A.</b></p>
<p><b>SMP 21:</b> "Acceptability of upcycled fabrics in Southwest Nigeria" <b>Diyaolu I. J.</b></p>	<p><b>SMP 14:</b> "3D printed textile accessories with degradable materials for reduced environmental impact". <b>Namouchi A., Kordoghli B</b></p>	<p><b>FACO 12:</b> "Well-being factors affecting consumer decision making: Tunisian case". <b>Alibi H., Baghdadi R., Faten Fayala F., Zeng X.</b></p>
<p><b>FACO 11:</b> "Optimizing assembly line balancing in manufacturing processes: insights and innovations in AI implementation". <b>Zouhri C., Khedher F., Babay A., Mustapha H., Alami J.</b></p>	<p><b>TMST 12:</b> "Efficiencies comparison of zinc pyrithione, silver salt and essential oils against shoes insoles bacteria". <b>Ben Rayana H., Dhouib S., Zouari R., Djelassi B., Elaissi A., Maha Mastouri M., Babay A.</b></p>	<p><b>FACO 14:</b> "Touch criteria influencing the purchasing decision of tunisian consumers". <b>Baghdadi R., Alibi H., Fayala F., Zeng X.</b></p>
<p><b>DIMA 6:</b> "Advancing assembly line balancing in the apparel industry: state of the art". <b>Zouhri C., Khedher F., Babay A., Hlyal M., El Alami J.</b></p>	<p><b>TMST 25:</b> "Textile heart valve: how surface treatment improves/prevents fibroblast viability?". <b>Khoffi F., Khalsi Y., Tazibt A., Kerdjoudj H., Msahli S., Heim F.</b></p>	<p><b>TMST 30:</b> Development and application of new ceramic microfiltration membrane from natural zeolite material, <b>Rmili W., R. Ban Amar</b></p>
	<p><b>TMST 32*:</b> Evaluation of antibacterial activity of cotton fabrics treated with essential oils. <b>Gargoubi S., Bouaziz A., Dridi D. Zouari A., Bartegi A., Majdoub H. and Boudokhane C.</b></p>	<p><b>TMST 30*:</b> "Advancing smart agriculture: fuzzy-based decision system for apple harvesting". <b>Iyoubi M., Tetouani S., Bouziane K., Cherkaoui O., Soulhi A.</b></p>
Questions Session	Questions Session	Questions Session

Saturday, November 11, 2023	
Since 08h: 00	<b>WELCOME &amp; REGISTRATION</b>
09h: 00 – 09h: 30	<p><b>PLENARY CONFERENCE 1</b> <b>Prof. Frédéric HEIM</b> Laboratory of Physics and Méchanics of Textile, University of Haute-Alsace, Mulhouse, France</p> <p>« <b>Tissue Engineered Cardiovascular Devices - Strength and Durability Concerns</b> »</p>
09h: 30 – 10h: 00	<p><b>PLENARY CONFERENCE 2</b> <b>Prof. Amine HADJ TAIEB</b> Textile Engineering Laboratory, University of Monastir, Tunisia</p> <p>« <b>Metamaterial textiles design: barrier effects, optical illusions and the prospects of invisibility</b> »</p>
10h: 00 – 10h: 30	<b>COFFEE BREAK</b>

<b>ORAL COMMUNICATIONS</b>			
<b>10h: 30 – 11h: 20</b>	<b>Session 11: Functionalization and Ecological Textiles</b>  Prof. Abdelaziz LALLAM & Prof. Soufien DHOUIB	<b>Session 12: Biobased textiles and recycling</b>  Prof. Frederic HEIM & Prof. Nicolas BROSE	<b>Session 13: Finishing and advanced dyeing</b>  Prof. Omar CHARKAOUI & Prof. Nizar MEKSI
<b>10h: 30 - 10h: 40</b>	<b>SMP 30*</b> : "Bacti Cleaner: Innovative Textile Nanosilver Based Treatment for Effective and Durable Medical Protection" <b>Ramzi Maalej</b>	<b>BMC 2</b> : "Study of the tensile performance of composite materials based on tire rubber and natural wasted fibers". <b>Boudagga M., Khedher F., Jaouachi B.</b>	<b>SMP 20</b> : "Comparative study of one-bath and two-bath dyeing procedures of double-faced cotton/polyester fabric". <b>Zarrouk H., Elamri A., Charfi A., Hamdaoui M.</b>
<b>10h: 40 - 10h: 50</b>	<b>SMP 9</b> : "Plasma jet technology to improve the hydrophobicity of flax fabrics". <b>Sassi FZ., Zouari R., Baffoun A., Sonnier R., Longuet C., Msahli S.</b>	<b>BMC 7</b> : "Effect of chemical treatment parameters on physical and mechanical properties of doum palm fibers". <b>Zannen S., Ghali L., Ben Hsan M.</b>	<b>SMP 7</b> : "On the valorization of certain components extracted from opuntia ficus indica L. in textile finishing". <b>Ibn Ali A, Hedfi H, Hamdaoui M</b>
<b>10h: 50 - 11h: 00</b>	<b>SMP 28*</b> : "Development of a new eco-friendly binder". <b>Mezheri A, Benzarti M, Ivanov D, Lallam</b>	<b>TMST 23</b> : "Evaluation of the Performance of the Elastic Band Used on Stretch Fabrics". <b>Helali H., Debbichi M., Mani H., Gaabout A.</b>	<b>TMST 26</b> : "Efficient adsorption of acid blue 74 from aqueous solutions using amino-functionalized cellulose loaded with Fe3o4 Nps". <b>Sidia N, El Ghali A, Chaabane L, Baffoun A, El Haskouri BJ, Baouab MHV.</b>
<b>11h: 00 - 11h: 10</b>	<b>SMP 29*</b> : "Effect of FE2O3/TIO2 additions on mechanical and chemical properties of phosphate glass fibers". <b>Daki I., El Bouchti M., Saloumi N., C. Assamadi C., Oumam M., Cherkaoui O., Hannache H.</b>	<b>SMP 22</b> : "Thermal behavior of polymer pellets of virgin polyester pet compared to recycled polyester". <b>Abdel-Mouttalib K, Nadi A., Cherkaoui O., Touhtouh S.</b>	<b>FACO 6</b> : "Influence of relative humidity and storage configuration of knitted fabrics in a production line on the phenomenon of sorption". <b>Sayahi M., Hedfi H. Hamdaoui M.</b>
<b>11h: 10 - 11h: 20</b>	<b>Questions session</b>	<b>Questions session</b>	<b>Questions session</b>

<b>11h: 20 - 12h: 40</b>	<b>Session 14: Technical and Smart Textiles</b>  Prof. Chorki CHERIF & Prof. Steffen MÜLLER-PROBANDT	<b>Session 15: Functionalization and Ecological Textiles</b>  Prof. Abdelaziz LALLAM & Prof. Naceur BEN BELGACEM
<b>11h: 20 - 11h: 30</b>	<b>TMST 8</b> : "Study of treated leather antimicrobial properties". <b>Ben Rayana H., Zouari R., Dhouib S., Chaouch W, Babay A., Djelassi B., Mastouri M., Khemir H., Somai N.</b>	<b>SMP 12</b> : "Flame retardancy of cotton fabric based on chicken eggshells". <b>Haddaji K, Cheriaa R, Jaouachi B</b>
<b>11h: 30 - 11h: 40</b>	<b>TMST 3</b> : "Production of a fully fireproof PVC synthetic leather article". <b>Stambouli M, Chaouch W, Gargoubi S, Zouari R, Msahli S.</b>	<b>BMC 8</b> : "Nanofibrillated cellulose from Natural Fibers for Food Applications". <b>Ridene S., Ben Marzoug I., Ghali L., Msahli S.</b>
<b>11h: 40 - 11h: 50</b>	<b>TMST 28</b> : "Development of a biobased conductive link formulation and its application through screen printing for electronic textile development". <b>Batine A., Boumeagnane A., Nadi A. Cherkaoui O., M. Tahiri M</b>	<b>SMP 26*</b> : "A new protective textile based on the aerogel as charge for poly-cotton fabric". <b>Assal M., El wazna M., El bouchti M., El Bouari A., Cherkaoui O.</b>
<b>11h: 50 - 12h: 00</b>	<b>TMST 29*</b> : "Smart textile sensors empowered by piezoelectric energy harvesting". <b>Khadija Oumghar K., Chakhchaoui N., Eddiai A., Cherkaoui O.</b>	<b>TMST 4</b> : "The use of pumice stone waste for the manufacture of abrasives". <b>Elaissi A., Ghith A.</b>
<b>12h: 00 - 12h: 10</b>	<b>Questions session</b>	<b>Questions session</b>
<b>12h: 10 - 12h: 40</b>	<b>CLOSING CEREMONY</b>	
<b>13h: 00 – 17h: 00</b>	<b>LUNCH AND TOUR OF MONSATIR CITY</b>	