



The Institute of Textile Science

Incorporated, Canada 1958

**2024 Symposium and 67th AGM
March 5 & 6, 2024**

Locations:

- **Montréal**

Université de Montréal, Ecole de Santé Publique: room 3019 (3rd floor)
7101, avenue du Parc, Montreal.

Please note that parking is limited: use of the subway is suggested

- **Edmonton**

University of Alberta, Edmonton: room GSB 5-50
(https://www.ualberta.ca/maps.html?l=53.526142,-113.529437&z=17&campus=north_campus&b=gsb)

- **Remote**

Zoom details sent to remote attendees a few days before the event

Program

Tuesday March 5, 2024

<u>MT</u>	<u>EST</u>	
7:45	9:45	Greetings <i>Dr. Matina Kalcounis-Rueppell, College Dean & Vice Provost of Natural and Applied Sciences, University of Alberta</i> <i>Prof. Michèle Bouchard, Vice-Dean, Research, Valorization and Knowledge Transfer, École de Santé Publique, Université de Montréal</i>
8 to 9	10 to 11	<u>Innovation in sustainability in textiles & apparel</u> The Canadian Green Textiles Strategy - <i>Dr. Jacek Mlynarek, Executive Director, Canadian Textile Industry Association.</i> Towards circular manufacturing strategies - mechanical transformation of textile waste: a new resource for composite bricks - <i>Dr. Lucas Hof, Professor, Ecole de technologie supérieure.</i>
8 - 8:30	10 - 10:30	
8:30 - 9	10:30 - 11	
9 to 9:40	11 to 11:40	<u>Panel Discussion: Challenges and Strategies for the Textile Supply Chain</u> <ul style="list-style-type: none"> • <i>Mr. Stéphane Drouin, Vice-président, Achat québécois et développement économique.</i> • <i>Mr. Dan King, VP, Production, R&D, Davey Textile Solutions.</i>
9:40 to 10	11:40 to 12	<u>3-min poster presentations</u>
10 - 11	12 - 1	Pause / Poster session in Edmonton
11-11:30	1 to 1:30	<u>Innovation in sustainability in textiles & apparel (Cont'd)</u> Circular textiles and innovation in cellulosic feedstock - <i>Ms. Enrica Arena, CEO, Orange Fiber.</i>
11:30-12	1:30 - 2	<u>Students' Research Corner</u>
11:30 – 11:45	1:30 – 1:45	Emulsion Electrospun Crosslinked Fibrous Membrane for Water Purification - <i>Pramod Manikant Gurave and Rajiv K. Srivastava. Indian Institute of Technology Delhi.</i>
11:45 – 12	1:45 – 2	Characterizing the Thermal Protective Performance of Textiles Under Flame Exposure with Varying Intensities. <i>Ishmam Zahin Chowdhury, Dr. Sumit Mandal, Dr. Adriana Petrova, Dr. Robert J Agnew, Dr. Lynn M Boorady, Dr. Emiel DanHartog, Shariful Islam Tushar. Oklahoma State University.</i>
12 - 1	2 - 3	Pause / Networking session in Montréal
1 - 1:30	3 - 3:30	<u>Students' Research Corner</u>
1 – 1:15	3 – 3:15	Evaluation of haptic properties of textile fabrics by Syntouch and creation of an example box. <i>Dr. Rupali, Adrian Lai, Patricia Dolez. University of Alberta.</i>
1:15 – 1:30	3:15 – 3:30	Characterizing of Heat Transfer Performance of the Contaminated Flame-resistant Fabric: Implications for Health and Well-being of Oil And Gas Rig Workers. <i>Shariful Islam Tushar, Sumit Mandal, Ishmam Zahin Chowdhury, Adriana Petrova, Lynn M. Boorady, Robert J. Agnew. Oklahoma State University.</i>
1:30 to 3	3:30 to 5	<u>67th Annual General Meeting</u>
5:30pm	5:30pm	Reception

Wednesday March 6, 2024

<u>MT</u>	<u>EST</u>	
8 to 9	10 to 11	<u>Military and space textiles</u>
8 - 8:30	10 - 10:30	Aerosols: the challenge to protect - <i>Dr. Scott Duncan, Section Head, Chemical Threat Defence Section, DG Science and Engineering, Suffield Research Centre, Defence Research and Development Canada / Government of Canada.</i>
8:30 - 9	10:30 - 11	Biometric clothing for clinical applications, defence, and aerospace – <i>Mr. Pierre-Alexandre Fournier, CEO, Carré Technologies.</i>
9 to 10	11 to 12	<u>Smart textiles in health care</u>
9 to 9:30	11 to 11:30	Smart Garments for Preventing Tissue Injury and Deep Vein Thrombosis – <i>Dr. Vivian Mushahwar, Professor, University of Alberta.</i>
9:30 – 10	11:30 – 12	Efficiency, Durability and Safety Test Methods for Smart Heating Textiles – <i>Dr. Patricia Dolez, Associate Professor, University of Alberta.</i>
10 to 11	12 to 1	Pause / Poster session in Edmonton
11- 12	1- 2	<u>Fire protective fabrics</u>
11 – 11:30	1 – 1:30	Transitioning the Fire Service to PFAS-Free Alternatives: Trade-offs in Exposure and Performance - <i>Dr. Bryan Ormond, Assistant Professor, North Carolina State University.</i>
11:30 – 12	1:30 - 2	Manufacturing graphene-based end-of-life sensors for fire-protective fabrics - <i>Ms. Diana Yehia, R&D Associate, Davey Textile Solutions.</i>
12 to 1	2 to 3	Pause / Networking session in Montréal
1-2	3 – 4	<u>Advanced dyes and pigments</u>
1 – 1:30	3 – 3:30	Bacterial dyes for greener, UV-stable dyed textiles - <i>Ms. Iris Redinger, Founder, Material Futures Lab & Dr. Ahmad Ibrahim, Researcher, CTT Group.</i>
1:30 – 2	3:30 – 4	Dyes & sustainable Coloration: Saving resources, re-cycling and up-cycling - <i>Mr. Julio Carrillo, Marketing Executive, Archroma Textile Effects.</i>
2-3	4 – 5	<u>Students' Research Corner</u>
2 – 2:15	4 – 4:15	Thermal Effusivity Measurement of Sportswear Fabrics in the Wet State: Test Method Development and Result Analysis. <i>Md Rashedul Islam, Farzan Gholamreza, Arya Hakimian, Adrian Lai, Robert Gathercole, Kevin Golovin, Patricia I. Dolez. University of Alberta.</i>
2:15 – 2:30	4:15 – 4:30	Investigation of Microplastic Fiber Release on Hand-Washed Polyester. <i>Amanuel Goliad and Dr. Kevin Golovin. University of Toronto.</i>
2:30 – 2:45	4:30 – 4:45	Mind the Gaps: A Comprehensive Literature Review of Surf Wetsuits and Ensemble Accessories. <i>Veronica Dalton and Dr. Meredith McQuerry. Florida State University.</i>
2:45 – 3	4:45 – 5	Hydrothermal aging of PBO fabric – Effect of hydro condition and temperature. <i>Rajitha Botheju, Md. Saiful Hoque, Patricia I. Dolez. University of Alberta.</i>
3 pm	5 pm	Closing remarks from Patricia Dolez, President, Institute of Textile Science.
3:30-4:30 pm		<u>Tour of the PCERF lab</u> (https://pcerf.ualberta.ca/) for attendees in Edmonton

POSTER PRESENTATIONS

In Edmonton

- Personalized Protective Clothing: The impacts of alterations on the safety and comfort of women's fire protective clothing - *Jemma R. P. Forgie and Patricia I. Dolez*. University of Alberta
- Development of Regenerated Cellulosic Fibre from Hemp Feedstock using an Eco-friendly Lyocell Process for Sustainable Textile Manufacturing. *Md. Abu Sayed, Lelia Lawson, K M Abdun Noor, Dagem Zekaryas Haddis, Jane Batcheller, David C. Bressler, and Patricia I. Dolez*. University of Alberta
- Manufacturing Cellulose Pulp from Cotton Waste Garments for Lyocell Fibre Production. *K M Abdun Noor, Lelia Lawson, Md Abu Sayed, Dagem Zekaryas Haddis, Jane Batcheller, David C. Bressler, and Patricia I. Dolez*. University of Alberta
- Under the microscope: Exploring the use of antimicrobial textile finishes. *Jennifer Beaudette, Rachel McQueen, and Jelena Holovati*. University of Alberta