



# 2025 Symposium

## 68th AGM

### March 18 & 19, 2025

#### 4 Locations

##### **Montréal**

Université de Montréal, Ecole de Santé Publique  
room 3019 - 3rd floor

7101, avenue du Parc, Montreal, QC, Canada

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

##### **Edmonton**

University of Alberta,  
Cascade Room, Students' Union Building, Edmonton, AB, Canada

##### **Raleigh**

North Carolina State University  
TEX 3436 & 3438, 1020 Main Campus Dr,  
Wilson College of Textiles, Raleigh, NC 27606, USA

##### **Remote**

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

Tuesday March 18, 2025



MT

EST

7:45

9:45

**Greetings**

Land Acknowledgements

Patricia Dolez, Chair, Symposium Committee

8 to 9

10 to 11

**Textiles and protection**

8 - 8:30

10 - 10:30

*Dr. Eric Wagnac, Professor, École de technologie supérieure.* From Leather to Advanced Engineering: Material Innovations in Helmets for Better Protecting American Football Players.

8:30 - 9

10:30 - 11

*Victoria Budico, Lead Human Factors and Ergonomics, Mawashi.* Navigating the Challenge of Textile Selection in Exoskeleton Design and User Experience.

9 - 9:30

11 - 11:30

**Students' Research Corner**

9 - 9:15

11 - 11:15

*Muhammad Ali, Nguyen Thanh Mai, Ji-Huan He, Soochow University.* Janus-Structured Amphiphilic Nanofibers by Conjugated Bubble Electrospinning for Effective Wound Healing.

9:15 - 9:30

11:15 - 11:30

*Jennifer Beaudette & Rachel McQueen, University of Alberta.* Exploring the effects of Odour Management Textile Treatments on Consumer Laundry Habits.

9:30 to 10

11:30 to 12

**3-min poster presentations**

10 - 11

12 - 1

**Lunch break in Montréal and Raleigh / Poster session in Edmonton**

Tuesday March 18, 2025



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11-12 1 to 2

**Medical textiles**

11 – 11:30 1 – 1:30

*Dr. Andrea Ferrone, Director of Integration, Innovation and Industrialization, MyAnt. From Concept to Scale: Innovations and Integration in Computing Textiles.*

11:30 – 12 1:30 – 2

*Dr. Azadeh Yadollahi, Assistant Professor, University of Toronto. Application of Textile-based technologies to assess cardio-respiratory conditions.*

12 - 1 2 - 3

**Lunch break in Edmonton / Poster session in Montréal and Raleigh**

1 – 2 3 – 4

**Panel Discussion: Fast/Slow Fashion**

- *Kelly Drennan, Executive Director, FashionTakesAction.*
- *Sam Colby, EVP & Chief of Staff, Sheertex.*

2 to 3:30 4 to 5:30 **68<sup>th</sup> Annual General Meeting**

6 pm 6 pm **Reception**

Wednesday March 19, 2025



MT

EST

**8 to 9**      **10 to 11**      **Alternatives to substances of very high concern in textile processes**

8 - 8:30      10 - 10:30      *Dr. Nolwenn Noisel, Assistant Professor, Université de Montréal. Textiles in Clothing and Outdoor Gear: Effective Barrier of Protection or Source of Exposure to Contaminants?*

8:30 - 9      10:30 - 11      *Dr. Ahmad Ibrahim, Researcher, CTT Group. PFAS in the Textile Industry: The Case of Firefighter Protective Gear Amid Regulatory Shifts.*

**9 to 10**      **11 to 12**      **Advances in textile manufacturing**

9 to 9:30      11 to 11:30      *Dr. Raoul Farer, Director, Nonwovens Institute, North Carolina State University. Can I do that with a Nonwoven?*

9:30 - 10      11:30 - 12      *Dan King, VP, Production, Research & Development, Davey Textile Solutions. Next-Gen Textile Manufacturing: Data, AI, and Automation.*

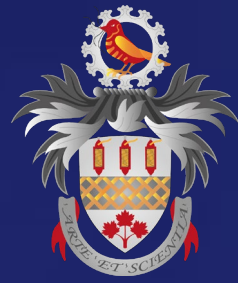
**10 to 11**      **12 to 1**      **Lunch break in Montréal and Raleigh / Poster session in Edmonton**

## Wednesday March 19, 2025



<u>MT</u>	<u>EST</u>	
<b>11- 12</b>	<b>1- 2</b>	<b><u>Students' Research Corner</u></b>
11-11:15	1-1:15	<i><u>Mostafa Alakhadar</u>, Ludwig Vinches, Stéphane Hallé, École de Technologie Supérieure. Wind's Impact on Thermal Resistance: Challenging Existing Standards.</i>
11:15-11:30	1:15-1:30	<i><u>Md. Abu Sayed</u>, Lelia Lawson, K M Abdun Noor, Dagem Zekaryas Haddis, Bernardo A. Souto, Jane Batcheller, David C. Bressler, Patricia I. Dolez, University of Alberta. Optimizing the Pulping Conditions of Hemp Bast Fibre for Lyocell Fibre Production.</i>
11:30-11:45	1:30-1:45	<i><u>Faisal Ahmed</u>, Faisal Abedin, Amanda C. Mills, Cassandra H. Kwon, North Carolina State University. Localized Integration of Complex Electronic Systems in Woven Fabrics.</i>
11:45-12	1:45-2	<i><u>Rishabh Dagur</u>, Yu Chen, Ngo TriDung, Garrett Melenka, Cagri Ayranci, University of Alberta. Textile Structural Composites: Hemp-based Braided Rebars for Sustainable Infrastructures.</i>
<b>12 to 1</b>	<b>2 to 3</b>	<b>Lunch break in Edmonton / Poster session in Montréal and Raleigh</b>
<b>1-2</b>	<b>3 - 4</b>	<b><u>Advanced textiles for safety</u></b>
1 - 1:30	3 - 3:30	<i><u>Dr. Mahdi Tavakoli</u>, Professor, University of Alberta. Myoelectric Control of a Soft Upper-limb Exoskeleton.</i>
1:30 - 2	3:30 - 4	<i><u>Sogol Asghari</u>, Senior Textile Research and Development Specialist, PRIMED Medical Products Inc. Textiles That Protect: Innovations Shaping Safety in Healthcare.</i>

Wednesday March 19, 2025



MT

EST

2-3

4 - 5

**Students' Research Corner**

2 - 2:15

4 - 4:15

*Carmen Vung, Rachel H. McQueen, Anika Kozlowski, University of Alberta. Reuse and Repair Skill-Building – Canadian Clothing Repair Events and the Factors Affecting Event Attendance..*

2:15 – 2:30 4:15 – 4:30

*Maria Sawiak, Bernardo A. Souto, Lelia Lawson, Joy Lo, Patricia I. Dolez, University of Alberta. Quantifying Recovered N-Methylmorpholine N-Oxide from Lyocell Manmade Cellulosic Fibres Manufacturing Wastewater.*

2:30 – 2:45 4:30 – 4:45

*Luka Morita, Saiful Hoque, Matt Spence, Joshua Cunningham, Dan Sameoto, University of Alberta. Thermal Drawing of Additively Manufactured Preforms for Smart Fiber Fabrication..*

2:45 – 3

4:45 – 5

*Jemma Forgie & Patricia Dolez, University of Alberta. “Making Do”: How Alberta Female Firefighters Are Overcoming the Challenges of Poorly Fitted Fire Protective Clothing..*

3 pm

5 pm

**Closing remarks from Sogol Asghari, President, Institute of Textile Science.**

3:30-4:30 pm

**Tour of the PCERF lab (<https://pcerf.ualberta.ca/>) for attendees in Edmonton**



## POSTER PRESENTATIONS

### In Montreal

Parian Mohamadi, Dimitri Theurot, Stéphane Hallé, Ludwig Vinches, Université de Montréal. Sex-Based Variations in Body Pressure Mapping for Sleeping Bag Applications.

### In Raleigh

Mushfika Tasnim Mica, Emiel DenHartog, Roger Barker, Anthony Deaton, Marc Matthews, North Carolina State University. Evaluating Thermal Insulation of Ballistic Vest and Turnout Gear on Firefighter Heat Strain.

### In Edmonton

K M Abdun Noor, Bernardo Araujo Souto, Dagem Zekaryas Haddis, Frehiwot Hailu, Lelia Lawson, Md Abu Sayed, Jane Batcheller, David C. Bressler, Patricia I. Dolez, University of Alberta. Optimization of Dissolving Pulp Preparation from Waste Cotton for Lyocell Fibre Production.

Teagan Sterling, Utkarsh Sharma, Rachel McQueen, Anika Kozlowski, University of Alberta. Opportunities for Circularity: Sorting Canada's Textile Donations.

Rajitha Botheju, Md. Saiful Hoque; Patricia I. Dolez, University of Alberta. Water Ageing of PBO Fabric – Effect of Water Phase and Temperature.

Janna Ehrenholz, University of Alberta. Nettle Fibres for Textile Production.



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**Program and registration**

**[www.textilesciences.com](http://www.textilesciences.com)**