



The Institute of Textile Science

Incorporated, Canada 1958

2021 ITS Symposium and 64th ITS AGM

March 9 & 10, 2021

Final Program

Tuesday March 9, 2021

<u>MT</u>	<u>EDT</u>	
7:55	9:55	Greetings from Lena Horne , President, Institute of Textile Science
8 to 10	10 to 12	Rapid Innovation 2020
8 - 8:30	10 - 10:30	<i>Mr. Bob Kirke, Executive Director - Canadian Apparel Federation</i>
8:30 - 9	10:30 - 11	<u>Response of a managed clothing solutions provider to COVID-19 PPE shortage.</u> <i>Ms. Karine Bibeau, Vice-President, Logistik Unicorp Inc.</i>
9 - 9:30	11 - 11:30	<u>Lessons learned from a pandemic.</u> <i>Ms. Shirley Chan, Senior Director - Global Sourcing & Quality, ARC'TERYX Equipment</i>
9:30 - 10	11:30 - 12	<u>Student presentations</u> <i>Fabric selection process for the customization of brassieres (bras) suited to atypical breast sizes/shapes.</i> <u>Bolaji J. T.</u> (Department of Human Ecology, University of Alberta), <i>Krawchuk T., Dolez P. I.</i> <i>Hand layup draping sequencing algorithm.</i> <u>Basaldua-Robledo F.</u> (Mechanical Engineering, University of Ottawa), <i>Kanz P., Hoffer J., Salles F., Rannou C., Pupin C., Robitaille F.</i>
10 - 10:30	12 - 12:30	Pause
10:30 to 1:30	12:30 to 3:30	Smart textiles
10:30 - 11	12:30 - 1	<u>Close to what matters most: Transforming care & wellbeing with textiles that sense & react.</u> <i>Ms. Ilaria Varoli, Executive Vice-President, Myant Inc</i>
11- 11:30	1 - 1:30	<u>Smart textiles for health monitoring.</u> <i>Dr. Amir Servati, Postdoctoral Fellow- Department of Materials Engineering, The University of British Columbia</i>
11:30 - 12	1:30 - 2	<u>Making personal protective equipment safe and sustainable.</u> <i>Dr. Thomas Willers, Head of Application and Science, KRÜSS GmbH</i>
12 - 12:30	2 - 2:30	Pause
12:30 - 1	2:30 - 3	<u>Development of contactless sensors for health and wellness monitoring – a new generation.</u> <i>Ms. Justine Decaens, R & D Director, CTT Group</i>
1 - 1:30	3 - 3:30	<u>Student presentations</u> <i>Mathematical models describing the time-temperature curves of smart heating textiles.</i> <u>Shuvo I. I.</u> (Department of Human Ecology, University of Alberta), <i>Decaens J., Lachapelle D., Dolez P. I.</i> <i>Superhydrophobic and antiviral PDMS-AgNPs-cotton via W/O/W emulsion approach.</i> <u>Venne C.</u> (Département de chimie, Biochimie et Physique, Université du Québec à Trois-Rivières), <i>Saidi A., Nguyen-Tri P.</i>
1:30 - 1:35	3:30 - 3:35	Presentation by Dr. Aleksey Baldygin, Technical Consultant – Canada, KRÜSS GmbH, Symposium Gold Sponsor
1:35 - 2	3:35 - 4	Networking: Chat with speakers
2 to 3:30	4 to 5:30	64th ITS Annual General Meeting

Wednesday March 10, 2021

<u>MT</u>	<u>EDT</u>	
8 to 10	10 to 12	PPE for COVID-19 front line workers
8 - 8:30	10 - 10:30	<u>Improving the fit of homemade face masks: An accessible, low-cost prototype with an individualized seal.</u> <i>Dr. Anne Bissonnette, Associate Professor - Department of Human Ecology, University of Alberta</i>
8:30 - 9	10:30 - 11	<u>Development of salt-functionalized filters for antimicrobial facemask.</u> <i>Dr. Ilaria Rubino, Faculty of Engineering, University of Alberta</i>
9 - 9:30	11 - 11:30	<u>Pathways to 'Made in Canada' sustainable and biodegradable filter media for face masks.</u> <i>Gurminder Minhas, Managing Director, Performance BioFilaments Inc</i>
9:30 - 10	11:30 - 12	<u>Student presentations</u> <i>Antiviral and biodegradable nonwoven textiles for protection against SARS-CoV-2 (COVID-19).</i> <u>Ladhari S.</u> (Département de chimie, Biochimie et Physique, Université du Québec à Trois-Rivières), Saidi A., Nguyen-Tri P. <i>Fabrics incorporating silver and copper nanoparticles as antiviral agents against SARS-CoV-2 (COVID-19).</i> <u>Vu N.-N.</u> (Département de chimie, Biochimie et Physique, Université du Québec à Trois-Rivières), Saidi A., Nguyen-Tri P.
10 to 10:30	12 to 12:30	Pause
10:30 to 12	12:30 to 2	Textile finishing/functional clothing
10:30 - 11	12:30 - 1	<u>Development of antibacterial and antiviral materials for protective clothing.</u> <i>Dr. Gang Sun, Professor - Biological and Agricultural Engineering, University of California, Davis</i>
11 - 11:30	1-1:30	<u>Fluorine-free functional fabric finishes for obtaining outstanding oleophobicity.</u> <i>Dr. Kevin Golovin, Assistant Professor - School of Engineering, The University of British Columbia</i>
11:30 - 12	1:30 - 2	Networking: Chat with speakers
12 - 12:30	2 - 2:30	Pause
12:30 - 1:30	2:30 - 3:30	Students' Research Corner (Other topics) <i>Impact of radiative exposures on mechanical properties of firefighters' protective clothing.</i> <u>Epp A.</u> (Department of Mechanical Engineering, University of Saskatchewan), Torvi D, Noble S, Batcheller J. <i>Comparison of bench-scale test methods for measuring heat transmission through wildland firefighters' personal protective clothing systems.</i> <u>Kosareva E.</u> (Department of Human Ecology, University of Alberta), Batcheller J., Paskaluk S. <i>Effect of hydrothermal aging on high-performance fibers used in fire-protective fabrics.</i> <u>Hoque M. S.</u> (Department of Human Ecology, University of Alberta), Saha A., Chung H.-J., Dolez P. I. <i>A method to test the thermal stress management of fabrics using heated cylinders.</i> <u>Asawo T.</u> (Department of Mechanical Engineering, University of Saskatchewan), Torvi D., Sumner D.
1:30 pm	3:30 pm	Closing remarks - Patricia Dolez, Vice-President, Institute of Textile Science