

MONDAY

AUGUST 10, 2026
Education Day

09:00 – 16:00	Registration FSC, Atrium
08:30 – 09:30	Opening Remarks FSC 1005
09:00 – 10:20	Hands-on Lab Activities Parallel tracks Processing FF 219 Analytical BRIM 142 Mechanical Testing FF 101 Workshops Track FSC 1005
10:30 – 10:40	Coffee Breaks
09:00 – 10:20	Hands-on Lab Activities Parallel tracks Processing FF 219 Analytical BRIM 142 Mechanical Testing FF 101 Workshop Track FSC 1005
12:05 – 13:15	Lunch Totem Dining Hall (Feast)
13:15 – 14:35	Hands-on Lab Activities Parallel tracks Processing FF 219 Analytical BRIM 142 Mechanical Testing FF 101 Workshop Track FSC 1005
14:50 – 15:00	PM Coffee Break Atrium
15:00 – 16:20	Workshop Track FSC 1005

TUESDAY

AUGUST 11, 2026
Technical Program

07:00 – 08:30	Breakfast Totem Dining Hall (Feast) Registration FSC, Atrium
08:30 – 09:30	Plenary Lecture FSC 1005
09:30 – 10:30	AM Programming Block # 1 Parallel sessions: Experimental Methods FSC 1001 Sustainable Technologies FSC 1003 Materials & Manufacturing FSC 1221 Automation FSC 1611
10:30 – 10:50	AM Coffee Break Atrium
10:50 – 12:10	AM Programming Block # 2 Parallel sessions: Experimental Methods FSC 1001 Sustainable Technologies FSC 1003 Materials & Manufacturing FSC 1221 Numerical Methods FSC 1611
12:10 – 13:30	Lunch Totem Dining Hall (Feast)
13:30 – 14:50	PM Programming Block # 1 Parallel sessions: Experimental Methods FSC 1001 Sustainable Technologies FSC 1003 Materials & Manufacturing FSC 1221 Numerical Methods FSC 1611
14:50 – 15:00	PM Coffee Break Atrium
15:00 – 16:20	PM Programming Block # 2 Parallel sessions: Experimental Methods FSC 1001 Sustainable Technologies FSC 1003 Materials & Manufacturing FSC 1221 Numerical Methods FSC 1611
16:20 – 16:50	General Networking FSC Atrium Display: Boeing 787 Horizontal Stabilizer Composite Panel (courtesy of the Composites Research Network) The Brimacombe Building
17:00 – 18:30	Welcome Reception R.H. Lee Alumni Centre

WEDNESDAY

AUGUST 12, 2026
Technical Program

07:00 – 08:30	Breakfast Totem Dining Hall (Feast)
08:30 – 09:30	Plenary Lecture FSC 1005
09:30 – 10:30	AM Programming Block # 1 Parallel sessions: Experimental Methods FSC 1001 Materials & Manufacturing FSC 1003 AI & ML Methods FSC 1221 Nondestructive Methods FSC 1611
10:30 – 10:50	AM Coffee Break Atrium
10:50 – 12:10	AM Programming Block # 2 Parallel sessions: Experimental Methods FSC 1001 Materials & Manufacturing FSC 1003 AI & ML Methods FSC 1221
12:10 – 13:30	Lunch Totem Dining Hall (Feast)
13:30 – 15:10	PM Programming Block Parallel sessions: Numerical Methods FSC 1001 Materials & Manufacturing FSC 1003 Sustainable Technologies FSC 1221
15:10 – 15:20	PM Coffee Break Atrium
15:20 – 16:45	Professional Development Session FSC 1611 General Networking FSC Atrium
18:30 – 21:00	Banquet Brock House

THURSDAY

AUGUST 13, 2026
Technical Program

07:00 – 08:30	Breakfast Totem Dining Hall (Feast)
08:30 – 09:30	Plenary Lecture FSC 1005
09:30 – 10:30	AM Programming Block # 1 Parallel sessions: Materials & Manufacturing FSC 1001/03 Nondestructive Methods FSC 1221
10:30 – 10:50	AM Coffee Break Atrium
10:50 – 12:10	AM Programming Block # 2 Parallel sessions: Materials & Manufacturing FSC 1001/03
12:10 – 13:30	Lunch Totem Dining Hall (Feast)

TUESDAY | AM

AUGUST 11, 2026

08:30 – 08:40
08:40 – 09:20

Call to Order | Welcome Remarks
CAC SMA Fellow Keynote
Composites Processing Research: “Going with the Flow” | Pascal Hubert, McGill Uni.



09:30 – 10:30		AM Programming Block #1		AM Programming Block #1		09:30 – 10:30
		Room 1001 EXPERIMENTAL METHODS Session chair: Irina Garces	Room 1003 SUSTAINABLE TECHNOLOGIES Session chair: François Robitaille	Room 1221 MATERIALS & MANUFACTURING Session chair: Andrew Hrymak	Room 1611 AUTOMATION Session chair: Abbas Milani	
09:30 – 09:50	Graph-Theory-Based Quantification of Electroconductive Network Interconnectivity in Multilayer Graphene/Epoxy Nanocomposites Helbert Canché, Centro de Investigación Científica de Yucatán ID #4	Durability and Mechanical Performance of Elastomeric Membranes Under Thermal–Humidity Aging and Mechanical Stress Ali Fazli, CTT Group ID #10	Manufacturing and Characterization of Smart Composite Filaments for Additive Manufacturing Luis Itzkauutli Mondragon, Centro de Investigación Científica de Yucatán ID #5	Design and Testing of a Laser-Induced Graphene Bending Sensor Array for Localized Wrinkle Monitoring in Textile Reinforcements Mohammad Amin Amindehghan, The University of British Columbia ID #79	09:30 – 09:50	
09:50 – 10:10	Prediction of Crystallinity for Large-scale Additive Manufacturing with Complex Temperature Histories Yannick Schäfer, German Aerospace Centre ID #19	Recycling Wind Turbine Blades: A DSC Perspective Sara Simon, NETZSCH ID #21	Surface Preparation Methods for Thermoplastic Composite Welding via the Thermabond™ Process Julieta Barroeta Robles, National Research Council Canada ID #9	Thermoplastic composite tape spring hinge for space applications made by 4D printing Suong Hoa, Concordia University ID #99	09:50 – 10:10	
10:10 – 10:30	An Experimental–Numerical Framework for Evaluating the Elastic Properties of Laminated Papers Samuel Hénault, Université du Québec à Trois-Rivières ID #46	Enhancing Permeability Resistance of Composite Cryogenic Hydrogen Storage for Sustainable Aviation Lucy Li, National Research Council Canada ID #30	Introduction and Overview of CMH-17 Teresa Vohsen, Wichita State University ID #11	The Formation of Automated Fibre Placement Imperfections and their Growth Using a Tabletop AFP Simulator Reece Haberstock, The University of British Columbia ID #142	10:10 – 10:30	
10:30 – 10:50		AM Coffee Break (20min)				
10:50 – 12:10		AM Programming Block #2		AM Programming Block #2		10:50 – 12:10
		Room 1001 EXPERIMENTAL METHODS Session chair: Irina Garces	Room 1003 SUSTAINABLE TECHNOLOGIES Session chair: Duncan Cree	Room 1221 MATERIALS & MANUFACTURING Session chair: Andrew Hrymak	Room 1611 NUMERICAL METHODS Session chair: Lucy Li	
10:50 – 11:10	Influence of Crack-Parallel Tension on Interlaminar Fracture Toughness of Quasibrittle Composites Genki Matsubara, University of Washington ID #51	Sustainable Acoustic Insulation: Perforated Recycled PET Foam-Honeycomb Sandwich Structure with Improved Half-Absorption Bandwidth Srinath Ravichandran, Concordia University ID #35	Innovative Manufacturing: Highlighting Technology Bricks for Automated Production of Fiber-Reinforced Composites in Helicopter Structures Christoph Frommel, German Aerospace Center ID #33	On the Optimization of Open Truss Interlaced Composite Structures Featuring Continuous Yarns François Robitaille, University of Ottawa ID #13	10:50 – 11:10	
11:10 – 11:30	Development of an In-Situ monitoring 3D printer for Digital Twin in Additive Manufacturing Cédric Courcoux, Polytechnique Montréal ID #55	Design of Flax Fibre-Reinforced PLA Composites Using Microparticles: A Strategy to Improve Interfacial Bonding and Dispersion Fatemeh Rahimi, University of Ottawa ID #36	PEDOT:PSS Conductive Polymer Ink for Functionalizing Fabric Reinforcements Prior to Forming Nadia Abdollahi, The University of British Columbia ID #42	Seismic Strengthening of Masonry Infills in RC Buildings Using Composite Textile Reinforced Mortar Stefano Sorace, University of Udine ID #31	11:10 – 11:30	
11:30 – 11:50	Experimental Calibration and Validation of a Phase-Field Formulation for 3D-Printed PEI-CF E'ouann Kerino, Polytechnique Montréal ID #56	The Effect of Treated Filler and Plasticizer on Polylactic Acid Composite Properties Containing Eggshell Particles Anahita Homavand, University of Saskatchewan ID #43	Damage suppression in Tow Based Discontinuous Composites under large deformation static indentation testing Cameron Abercromby, University of Bristol ID #45	Analysis of Interfacial Stresses of 3D Laminated Composites by a Regularized Boundary Integral Equation Yui-Chuin Shiah, National Cheng Kung University ID #32	11:30 – 11:50	
11:50 – 12:10	Investigation into the Fiber Orientation of a 3D Discontinuous Fiber Composite Bracket Representing a Real-Life Application Collins Davis, University of Washington ID #60	Development of a Recycled Compression Moulding Compound for Fast Curing Prepreg Waste Simon Golla, McGill University ID #61	Development of 3D-Printed Composite Running Blades for Pediatric Lower-Limb Prostheses Owen Packham, York University ID #48	A Symmetry-Compatible Rhombus Mesh for Continuum Dislocation Density Simulations in FCC Crystals Alireza Kalaei, The University of Hong Kong ID #153	11:50 – 12:10	
12:10 – 13:30		Lunch				

13:30 – 14:50	PM Programming Block #1			PM Programming Block #1	13:30 – 14:50
	Room 1001 EXPERIMENTAL METHODS Session chair: Suong Hoa	Room 1003 SUSTAINABLE TECHNOLOGIES Session chair: Joanna Wong	Room 1221 MATERIALS & MANUFACTURING Session chair: Frank Henning	Room 1611 NUMERICAL METHODS Session chair: Reza Vaziri	
13:30 – 13:50	Experimental Characterization and Numerical Modeling of Spatially Distributed Viscoelasticity in Short-Fiber-Reinforced Composite Tensile-Test Specimens Eduard Klatt, <i>Helmut-Schmidt-University/ University of the Federal Armed Forces</i> ID #68	Bonded Repairs of Composite Sandwich Structures: Impregnation Process and Quality Assessment Jingcai Zhou, <i>McGill University</i> ID #62	Adaptive Manufacturing Method for Double Diaphragm Forming of CYCOM® EP2750 Prepreg Yining Jiang, <i>Centre technologique en aérospatiale</i> ID #50	Mechanical Analysis of Step-Step Wet Layup Repairs: Numerical and Experimental Approach Loïc de Bluze, <i>Université Laval</i> ID #70	13:30 – 13:50
13:50 – 14:10	Optimizing Composite Promotion through Design of Experiments: Full Factorial and Mixture Design Studies Stephanie Vanslambrouck, <i>EMCO-Inortech</i> ID #78	Recyclability of Additively Manufactured PEI-Carbon Fiber Composites: Assessment of Environmental Footprint and Mechanical Performance Ghita El Anbri, <i>Polytechnique Montreal</i> ID #87	Investigation of Impact Damage in Thin-Ply CFRP Laminates with Biomimetic Layup Design and Resin Properties Control Masaaki Nishikawa, <i>Kyoto University</i> ID #52	Blind Prediction Challenge for Bonded Aircraft T-Joint Failure Guillaume Renaud, <i>National Research Council Canada</i> ID #96	13:50 – 14:10
14:10 – 14:30	A combined approach based on design of experiments and numerical modelling for mechanical performance of 3D printed polylactic acid/carbon fibre composites Yu Dong, <i>Curtin University</i> ID #84	Concept & Lab Testing of a Pedestrian Bridge Span Constructed from a Repurposed Wind Turbine Blade Maciej Kulpa, <i>Rzeszow University of Technology</i> ID #92	Effects of Aging in IRM 902 on the Mechanical Behavior of Injection- and Extrusion-Processed Thermoplastic Polymers Yingnan Wang, <i>University of Alberta</i> ID #53	Fast and Accurate Analytical Solution for Predicting Local Bending in Composite Conical Shell Structures with Flanges Valerio Belardi, <i>University of Rome Tor Vergata</i> ID #101	14:10 – 14:30
14:30 – 14:50	Load-Carrying Capacity of AFP-Manufactured Hybrid Aluminum/Thermoplastic Composite Tubes under Bending Mohammadali Rastak, <i>Concordia University</i> ID #98	Effect of Stearic Acid Coating on the Properties of Bio-Epoxy Unidirectional Flax Fiber Composites Victoria Le Maire, <i>McMaster University</i> ID #93	In situ Thermal Remending of Multimaterial 3D-printed Thermoplastic Composites Negar Aghigh, <i>Polytechnique Montréal</i> ID #69	Numerical Investigation of Hybrid Thin-Ply Laminates for Matrix Cracking and Delamination Suppression in Linerless Cryogenic Hydrogen Tanks Peyman Shabani, <i>Carleton University</i> ID #105	14:30 – 14:50
14:50 – 15:00	PM Coffee Break (10min)				
15:00 – 16:20	PM Programming Block #2			PM Programming Block #2	15:00 – 16:20
	Room 1001 EXPERIMENTAL METHODS Session chair: Frédérick Gosselin	Room 1003 SUSTAINABLE TECHNOLOGIES Session chair: Joanna Wong	Room 1221 MATERIALS & MANUFACTURING Session chair: Frank Henning	Room 1611 NUMERICAL METHODS Session chair: Reza Vaziri	
15:00 – 15:20	Mode I delamination behavior of flax-epoxy laminates made with UD and UD-mat reinforcements Gilbert Lebrun, <i>Université du Québec à Trois-Rivières</i> ID #118	Processing Strategies for Recycled Carbon Fibre using In-situ Polymerizable Thermoplastics Lukas Netzband, <i>McGill University</i> ID #64	Fatigue Behavior of Compliant, Pneumatically Actuated Glass Fiber-Reinforced Shading Modules: A Case Study of the FlectoLine Façade Larissa Born, <i>University of Stuttgart</i> ID #71	Design Optimization for Automated Fibre Placement Manufacturing of Linerless Hydrogen Composite Pressure Vessels Melina Lanzo, <i>Carleton University</i> ID #109	15:00 – 15:20
15:20 – 15:40	Thermomechanical Characterization and Optimization of Liquid Crystal Elastomer Actuators Activated via Integrated Joule Heating Estelle Chin, <i>Carleton University</i> ID #120	Experimental Comparison of Additively Manufactured PLA Honeycomb Cores with Aluminium and Nomex® for Crashworthy Sandwich Structures Maria Pia Falaschetti, <i>University of Bologna</i> ID #97	Calibration of 2D Thermal Simulations for Large-Scale Additive Manufacturing Using Thermography Maps Hubert Courteau-Godmaire, <i>Hutchinson Montreal</i> ID #77	Prediction of Anisotropic Thermal Conductivity in Short Carbon Fiber Reinforced Polymers using Multiscale Analysis Harry Zhou, <i>The University of British Columbia</i> ID #128	15:20 – 15:40
15:40 – 16:00	Modeling and Managing Void Generation in Out-of-Autoclave Prepregs Cured Quickly Elham Pakzad, <i>The University of British Columbia</i> ID #131	Thermoplastic Pultrusion: A Comparison of Melt and In-Situ Profiles Andrew Hrymak, <i>Western University</i> ID #100	The springback effect in thermoplastic composites for net-shape manufacturing Lukas Spirig, <i>University of Calgary</i> ID #81	Incorporating Crack-Parallel Stress Effects into a Spectral Stiffness Microplane Fracture Model Matthew Holmes, <i>University of Washington</i> ID #49	15:40 – 16:00
16:00 – 16:20	Carbon Fiber Thermoplastic Compounds for the Automotive Industry: Structure-Property Relationship Abdul Rahim Arafath, <i>SABIC</i> ID #25	Linking Elementary-Fibre/Lumen Size Gradients to Multi-View Micro-DIC Strain Localization and Fracture Modes in Technical Bamboo Fibres Carlos Fuentes, <i>Luxembourg Institute of Science and Technology</i> ID #161	Formability and Defect Formation Mechanisms for a Binder Stabilized Unidirectional Non-Crimp Fabric Zohreh Mohammadi, <i>University of Waterloo</i> ID #140	Microscale Permeability Prediction of Fibre Bundles Using Smoothed Particle Hydrodynamics Anatoly Koptelov, <i>University of Bristol</i> ID #150	16:00 – 16:20

AUGUST 12, 2026

Plenary Co-Lecture | Room 1005



Overcoming the Challenges to Utilize Full-Field Imaging & Data Fusion in Structural Analysis | Janice M. Dulieu-Barton, *University of Bristol*

09:30 – 10:30			AM Programming Block #1		AM Programming Block #1		09:30 – 10:30		
		Room 1001 EXPERIMENTAL METHODS Session chair: John Montesano		Room 1003 MATERIALS & MANUFACTURING Session chair: Martine Dubé		Room 1221 AI & ML METHODS Session chair: Alireza Forghani		Room 1611 NONDESTRUCTIVE METHODS Session chair: Garrett Melenka	
09:30 – 09:50		Characterization and Viscoelastic Modelling of a Conductive Polymer Metal Composite Aiden Corke, Carleton University ID #122		Application of Hot Powder Bed Compaction in Additive and Subtractive Composite Manufacturing Demonstrating Improved Performance and Flexible Fusion Alex Kravchenko, Old Dominion University ID #130		Leveraging Machine Learning for Recyclate Transparency and Circular Material Compliance Sara Simon, NETZSCH ID #20		Optimized Inline Quality Inspection of Carbon Fiber-Reinforced Polymer (CFRP) Components Using Structured Light 3D Imaging Demas Schmorell, German Aerospace Center ID #44	09:30 – 09:50
09:50 – 10:10		Wrinkle Morphology Effects on Thermoelastic Spring-In and Warpage in Composite L-Sections Connor Long, The University of British Columbia ID #136		High-Productivity Additive Manufacturing of Thermoplastic Composites through Fused Granulate Fabrication Loïc Cummings-Jomphe, Polytechnique Montréal ID #90		Development of AI-Assisted Quality Assurance for the Process of Ultrasonic Welding for High-performance Thermoplastic Composites: A Review Dominik Görick, German Aerospace Center ID #66		Non-Destructive Damage Identification in Hydrothermally Aged UGFTP Tapes Using Acoustic Emission and Unsupervised Learning Jorge Palacios Moreno, University of Alberta ID #57	09:50 – 10:10
10:10 – 10:30		Influence of Microstructure on the Compressive Response of Filament-Wound Carbon Fiber/Epoxy Composite Tubes Iyimide Shola-Shittu, University of Waterloo ID #143		Influence of Thermal History on Process–Properties Relationship in Fused Filament Fabrication of High-Temperature Thermoplastic Composites Minh-Tam Nguyen, Polytechnique Montreal ID #114		Efficient Experimental Design with an AI-Driven Tool Based on Bayesian Optimization Mahshid Pournajar, University of Bayreuth ID #169		From Amorphous Flow to Crystalline Order: Tracing Acoustic Emission Through Polymer Processing and Chain Alignment Guowei Chen, Nanjing Forestry University ID #65	10:10 – 10:30
10:30 – 10:50		AM Coffee Break (20min)							
10:50 – 12:10		AM Programming Block #2				AM Programming Block #2		10:50 – 12:10	
		Room 1001 EXPERIMENTAL METHODS Session chair: John Montesano		Room 1003 MATERIALS & MANUFACTURING Session chair: Martine Dubé		Room 1221 AI & ML METHODS Session chair: Navid Zobeiry			
10:50 – 11:10		Formulation of a temperature-dependent viscoelastic-damage-friction constitutive model to quantify entropy generated during fatigue of composite materials Ricardo Marques, University of Victoria ID #156		Development and Characterization of Piezoelectric Particle-Enhanced Self-Sensing Hybrid Composites Péter Csvila, Budapest University of Technology and Economics ID #106		Neural Network–Based Prediction of Wrinkling Severity in Flax Woven Fabrics using Material and Formed-Surface Texture Parameters Olivia Margoto, The University of British Columbia ID #89			10:50 – 11:10
11:10 – 11:30		High-Speed Microscale Imaging of Damage in Composite Laminates Mahoor Mehdikhani, KU Leuven ID #170		D-MEW: Single-Channel Validation of a Dual-Material Capable Delta Melt Electrowriting Platform for High-Speed Scaffold Fabrication Ankush Deol, Carleton University ID #132		In-situ Residual Strength Prediction of Carbon-Fiber Composites Using Machine Learning Badr-Eddine Kamouni, Concordia University ID #108			11:10 – 11:30
11:30 – 11:50		Vacuum-Infused PMMA-Cotton Composite Textile with Tunable Mechanical Properties: Multivariate Analysis Rohith Jayaraman Krishnamurthy, The University of British Columbia ID #172		High-Performance Cellulose Nanofibril-Reinforced Epoxy Composites Using Directional Freezing and Flax Hybridization Kevin Oesef, The University of British Columbia ID #164		Data-Driven Prediction of Damage Distribution in PPMC from Coarse Structural Descriptors Kuthan Çelebi, The University of British Columbia ID #145			11:30 – 11:50
11:50 – 12:10		Modelling of Isothermal Physical Aging of Semi-Cured Thermosets Sherry Kiafar, The University of British Columbia ID #1		Improving the Surface Finish in Membrane-Assisted Ceramic Matrix Composites Injection-Filtration Molding: a Tradeoff b/n Geometry and Material Properties Arthur Saasa, Polytechnique Montréal ID #160		Explainable Physics-Informed Machine Learning for Mechanical Property Prediction and Formulation Design of Recycled Polymers Oumayma Tajir, University Of Sherbrooke ID #88			11:50 – 12:10
12:10 – 13:30		Lunch							

WEDNESDAY | PM

AUGUST 12, 2026

13:30 – 15:10	PM Programming Block		PM Programming Block #1	13:30 – 15:10
	Room 1001 NUMERICAL METHODS Session chair: Maria Pia Falaschetti	Room 1003 MATERIALS & MANUFACTURING Session chair: Daniel Therriault	Room 1221 SUSTAINABLE TECHNOLOGIES Session chair: Genevieve Palardy	
13:30 – 13:50	Molecules to Manufactured: Multiscale Homogenization, Modelling, and Simulation for Composite Materials Timothy Carlson, Dassault ID #168	Toward High-Quality In-Situ Consolidation of Thermoplastic Composites: Heated-Mandrel AFP with Controlled Vacuum Cooling Mahmoud Fereidouni, Concordia University ID #121	Mistletoe as a Model Composite System: Self-assembling, Self-healing Natural Cellulosic Fibers Zachary Katz, McGill University ID #85	13:30 – 13:50
13:50 – 14:10	Performance Assessment of UD-NCF CFRP Double-Hat Channels under Oblique Crush Loading John Montesano, University of Waterloo ID #138	Effect of Vacuum-Assisted Multi-Die Pultrusion Processing Parameters on Glass Fibres/ Polyamide 6 Beams Brandon Turcotte, Polytechnique Montréal ID #124	Investigating the Environmental Durability of Vitrimerized Commercial Thermosets for Aerospace Composites Tony Baltoiu, McGill University ID #86	13:50 – 14:10
14:10 – 14:30	Predicting Process-Induced Deformations with a Coupled Cure-Compaction Model in AFP Manufactured Laminates Raul Gomez Quinones, University of Bristol ID #144	Low-Temperature Induction Welding of Semi-Crystalline Thermoplastic Composites via Amorphous Polymer Interfaces Andrew Cai, UC San Diego ID #141	Multifunctional Flame-Retardant Coatings on Carbon Fiber-Reinforced PA6 Composites Prepared by Anionic Ring-Opening Polymerization Zsófia Kovács, Budapest University of Technology and Economics ID #107	14:10 – 14:30
14:30 – 14:50	The Geometry of Two-Dimensional Stochastic Volume Elements to Capture the Plastic Properties of Short Fiber Reinforced Composites Ilona Widera, Helmut-Schmidt-University / University of the Federal Armed Forces Hamburg ID #113	Fabrication Process Development for Microwave Heating of Carbon Fiber Epoxy Composite Towpregs and Tapes Mahima Dua, University of Alberta ID #152	High-Performance PET Composites Reinforced with Hybrid Nanocellulose–Silica Nanorods Aria Guthrie, Applied Quantum Materials ID #110	14:30 – 14:50
14:50 – 15:10	Numerical Simulation of the Stamping Process for Mild Steel and GF-PA6 Glass Mat Thermoplastic Hybrid Assemblies Oluwajuwon Folorunsho, McGill University ID #155	Seeing Inside Autoclave: Fiber-Optic Shape Sensor for Measuring Consolidation Deformation Shu Minakuchi, The University of Tokyo ID #167	Development and Evaluation of Biochar-Filled Sheet Molding Compound (SMC) for Low-Shrink and Fire-Retardant Formulations Andrew Hrymak, Western University ID #162	14:50 – 15:10
15:10 – 15:20	PM Coffee Break (10min)			
15:20 – 16:45	Professional Development & EDI Session FSC 1611 General Networking FSC, Atrium			

THURSDAY | AM

AUGUST 13, 2026

08:30 – 09:25

Plenary Lecture | Room 1005

From Demonstration to Digital Integration of Composite Manufacturing Technologies |

Ali Yousefpour, National Research Council Canada



09:30 – 10:30	AM Programming Block #1	AM Programming Block #1	09:30 – 10:30
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	Room 1001 MATERIALS & MANUFACTURING Session chair: Ilyass Tabiai	Room 1003 MATERIALS & MANUFACTURING Session chair: Sampada Bodkhe	Room 1221 NONDESTRUCTIVE METHODS Session chair: Garrett Melenka	
09:30 – 09:50	Prediction of Process-Induced Deformation in CF/LM-PAEK Thermoplastic Composite Laminates at Different Cooling Rates Kazuki Ryuzono, Tohoku University ID #115	Direct Pellet-Based 4D Foam Printing of Shape Memory Polymers: Towards Multifunctional Adaptive Foam-Based Structures Rishabh Dagur, University of Alberta ID #171	Advanced Automated NDT Solutions for Composite Aerospace Structures: Modular and Large-Scale Platforms for 3D Inspection and Enhanced C-Scan Interpretation Rene Sicard, TecScan Systems ID #83	09:30 – 09:50
09:50 – 10:10	Braiding of Composite Tubes using Pre-Impregnated Carbon Fiber/Thermoplastic Tapes Evans Frandsen, Polytechnique Montreal ID #137	Study of SiC cake removal from flexible membrane through slurry injection/filtration process for Ceramic Matrix Composite applications Nathan Khakbaz-Monfared, Polytechnique Montréal ID #111	An Automated Framework for Quantitative Porosity Assessment in CFRP Using Ultrasonic Attenuation and High-Resolution X-ray CT Morteza Shayan Arani, Polytechnique Montreal ID #76	09:50 – 10:10
10:10 – 10:30	Benchmarking Commercial Carbon Fibers for Composite Pressure Vessels (CPV) for Hydrogen Storage Abdul Rahim Arafath, SABIC ID #24	Moisture Ageing Behavior of Flax-Epoxy Composites Modified with Silane-Functionalized Graphene Oxide Jialin Zhang, The University of British Columbia ID #163	Ultrasound-Assisted Porosity Control in Resin Systems for CFRP Manufacturing Daniel Csehngeri, The University of British Columbia ID #154	10:10 – 10:30

10:30 – 10:50	AM Coffee Break (20min)	
10:50 – 12:10	AM Programming Block #2	

	Room 1001 MATERIALS & MANUFACTURING Session chair: Ilyass Tabiai	Room 1003 MATERIALS & MANUFACTURING Session chair: Sampada Bodkhe
10:50 – 11:10	Process Development for Ultra-Thin Fiber-Reinforced Thermoplastic Backplates for Foldable Display Applications Bjoern Beck, Fraunhofer ICT ID #117	Printability of Composite Inks Using Direct Ink Writing: Definition and Validation of a Dimensionless Number Sidharth Sarojini Narayana, Polytechnique Montreal ID #54
11:10 – 11:30	Customizable 3D braided composites made using a radial braiding machine based on the chain and sprocket design Clara Grandisson Arsenault, Polytechnique Montreal ID #116	Evaluating the Thermal Efficiency of Autoclave Curing Ethan Sun, The University of British Columbia ID #151
11:30 – 11:50	Nacre-Inspired Multi-Scale Surface Architectures for Toughening Ceramic-Polymer Laminates Hamidreza Yazdani Sarvestani, National Research Council Canada ID #12	Optimizing Two-Component Polyurethane Coatings for Waterproof Roofing: Balancing Mechanical Strength and Flexibility Required for Roofing Applications Asma Eshraghi, University of Ottawa ID #104

12:10 – 13:30	Lunch
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