## FOAMS 2018 Conference - Montreal, September 13-14 2018

	DAY 1 : Sept 13, 2018	
7:30-8:15	On-site Registration - Badge pick-up	
8:15-8:25	Welcome	
8:25-9:05	Keynote: Outstanding Achievements Award Lecture	
	Jim Throne, Sherwood Technologies (USA)	
Session 1: Extrusion foaming process		
9:05-9:30	Design Considerations for Physical Foam Extrusion with CO <sub>2</sub> and N <sub>2</sub>	
	Andy Caufman, Promix Solutions (USA)	
9:30-9:55	Insights into the process and equipment to produce microcellular PET foams using extrusion foaming	
	Daniele Tammaro , Sulzer Chemtech (Switzerland)	
9:55-10:20	CO <sub>2</sub> -assisted foaming of PLA by using a planetary roller extruder for an enhanced mass and heat transfer	
	Judith Winck, Ruhr-University Bochum (Germany)	

10:20-10:45 Morning break

Session 2: In-mold Foaming	
10:45-11:10	Advances in high performance thermoplastic foams
	Isa Fonseca, BASF (Germany)
11:10-11:35	Thermoplastic Sandwich Structures with Bead Foam Core – Novel Processing Approaches
	Volker Altstaedt, University of Bayreuth (Germany)
11:35-12:00	Non-isothermal crystallization of hard segment in poly(ether-block-amide) (Pebax <sup>®</sup> ) and the impact on foam injection foaming under N2
	Ruosong Li, University of Toronto (Canada)

12:00-13:20 Lunch

Session 3: Foam	Session 3: Foam structure and properties	
13:20-13:45	High Energy Return Foam of Thermoplastic Polyester Elastomers (TPEE)	
	Andre Oosterlaken, DSM Engineering Plastics (USA)	
13:45-14:10	Tailor-made polyurethane foam morphology for defined thermal conductivity	
	Gisbert Riess, Montanuniversität Leoben (Austria)	
14:10-14:35	Thermal properties of highly loaded piezo-composite foams	
	Gayaneh Petrossian, Washington State University (USA)	
14:35-15:00	Thermal Properties and Morphology of Polyamide 6 Blends Foam	
	Shu Kai Yeh, National Taiwan University of Science and Technology (Taiwan)	

15:00-15:25 Afternoon break

Session 4: Chemical foaming agents and additives	
15:25-15:50	Chemical foaming of Copolyamide by reactive extrusion for automotive applications
	Mathilde Auclerc, University of Lyon (France)
15:50-16:15	Extruded PS foams nucleated by novel supramolecular additive to enhance foam morphology and properties
	Merve Demir, University Bayreuth (Germany)
16:15-16:40	Advances in Polyolefin Foaming Technology
	Colin Li Pi Shan, Dow Plastics (USA)

17:00-19:00 Reception / Poster session

19:00-21:00 Award banquet

	DAY 2: Sept 14, 2018	
8:00	Welcome	
8:00-8:40	Keynote: From 10 bubbles to 10,000 bubbles across a human hair: Transparent Foams in Polyetherimid	
	Vipin Kumar, University of Washington (USA)	
Session 5: Nan	ocellular foams properties	
8:40-9:05	Developing Transparent Insulating Polymeric Nanofoam for Energy Efficient Window Application	
	Jie Li, Argonne National Laboratory (USA)	
9:05-9:30	Nanocellular polymers based on PMMA: Recent approaches to produce these materials with improved cellular structures and properties	
	Miguel Rodriguez Perez, University of Valladolid (Spain)	
9:30-9:55	Scalable process for the economical production of lightweight polymer nanofoams	
	Roland Oberhoffer and Alexander Müller, Sumteq (Germany)	

9:55-10:20 Morning break

Session 6: Nand	Session 6: Nanocellular foams and fundamentals	
10:20-10:45	Low-density bimodal nanocellular PMMA/PVDF foams for super-insulating applications	
	Guilong Wang, Shandong University (China)	
10:45-11:10	Stress-induced cell size decrease in PMMA foams – the importance of hydrostatic stress in solid state foaming	
	Angelika Beinert, Cambridge University (UK)	
11:10-11:35	Graded and layered foams by gas foaming using periodic mass transport boundary conditions	
	Ernesto di Maio, University of Naples (Italy)	
11:35-12:00	Modelling Percolation Threshold of Conductive Polymer Composite Foams with Multi-cell Growth	
	Sai Wang, University of Toronto (Canada)	

12:00-13:20 Lunch

13:20-14:00	Keynote: Challenges and solutions in the recycling of polystyrene foams Mario Grenier, Dyne-A-Pak (Canada)
Session 7: Sust	ainable foams
14:00-14:25	Influence of Repeated Recycling of Polystyrene on Morphological Attributes during Solid-State Microcellular Foaming
	Abhishek Gandhi, CIPET, Bengaluru (India)
14:25-14:50	Polystyrene Recycling by Dissolution
	Solenne Brouard, PolystyVert
14:50-15:15	Sustainable Nanocellulose Additives for Enhanced Polyurethane Foams
	Geoff Fisher, Performance BioFilaments Inc. (Canada)

15:15-15:45 Afternoon break

Session 8: Nano-composite foams	
15:45-16:10	In-Situ Shrinking Microfibers Enhanced Strain Hardening of Linear Polymers
	Patrick Lee, University of Vermont (USA)
16:10-16:35	Dispersion of carbon additives in styrenic polymer blends and its impact on foaming with CO <sub>2</sub>
	Anson Wong, DowDuPont Specialty Products Division (USA)
16:35-17:00	Physical Foaming: A Facile Platform to Enhance Thermal Conductivity and Electrical Properties of the Polymer-Graphene Nanoplatelets
	Mahdi Hamidinejad, University of Toronto / NanoXplore (Canada)

17:00-17:10 Conclusion and next conference announcement