ISBBB 2018 Program (Draft Updated as of July 23, 2018 1:00 PM)

Program is in Eastern Standard Time

Monday, July 23rd, 2018

6:30 pm – 8:30 pm	Advanced registration desk open

Tuesday, July 24th, 2018

6:30 am – 8:45 am	Registration and Networking Breakfast				
8:45 am – 10:00 am	Royal City Ballroom				
10:00 am – 10:10 am					
10:10 am – 12:40 pm	S1 Royal City Ballroom A Hybrid Natural Fiber Composites Session Co-Chairs: Rajesh Anandjiwala Shinji Hirai	S2 Flanders Room Biopolymers, Films, and Foams Session Co-Chairs: Aman Ullah Christopher Barrett	S3 John McCrae Room Bio-fuels, Bioproducts, and Bioenergy Session Co-Chairs: Kecheng Li Nadras Othman	S4 Royal City Ballroom B Food Packaging and Biomedical Applications Session Co-Chairs: Khurshid Saharan Susanne Braun	
10:10 am – 10:35 am	Keynote Talk S1.1 - A Natural Alternative to Glass Fibers in Composite Laminates: Challenges and Opportunities of Silk Fibers M Cengiz Altan University of Oklahoma USA	Keynote Talk S2.1 - Natural and waste fillers in biodegradable polymeric films and foams Sarah Billington Stanford University USA	Keynote Talk S3.1 – From bioeconomy research towards sustainable innovations Pia Qvintus VTT Technical Research Centre of Finland Finland	Keynote Talk S4.1 - Effect of Graphene Nanoplatelets on Moisture Permeabilty in Polylactic Acid- Matrix Nanocomposite Films Rakesh Gupta West Virginia University USA	

Tuesday, July 24th, 2018 Cont'd

	Vouseta Talla	Vouseta Talla	Vouseta Talla	Variable Talle
10:35 am – 11:00 am	Keynote Talk S1.2 - Mechanical Characterisation and Modelling of Sustainable Biomaterials Randomly Reinforced Toughened Polypropylene Anh Dung Ngo Ecole de Technologie Superieure de l'Université du Québec Canada	Keynote Talk S2.2 - Use of biorefining processes for the production of fully bio- based polymers Sudip Rakshit Lakehead University Canada	Keynote Talk S3.2 - The BIOX Journey - Contributing to the global effort of providing cleaner and greener energy Nak Paik BIOX Canada	Keynote Talk S4.2 - Improvement of Gas Barrier Properties of Polyactic Acid (PLA) by Layer Multiplying Co-Extrusion Alain Guinault Conservatoire National des Arts et Métiers France
11:00 am – 11:20 am	Invited Speaker S1.3 - Cellulose Nanofibers Graphene Oxide based Biohybrids for Water Purification Aji Mathew Stockholm University Sweden	Invited Speaker S2.3 - Recent Research at Fraunhofer UMSICHT: from bio- based Foams and compatibilized Natural Fiber reinforced Composites Mona Duhme Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT Germany	Invited Speaker S3.3 - Circular Economy Approach for Waste Management and Creation of Value Added Products Bishnu Acharya University of Prince Edward Island Canada	Invited Speaker S4.3 - DNA plastics from bio-wastes Takashi Aoki Kyoto Institute of Technology Japan
11:20 am – 11:40 am		Network	king Break	
11:40 am – 12:05 pm	Keynote Talk S1.4 - Effect of surface treatment and fiber flexibility on the micromechanical behavior of natural fiber reinforced thermoplastic composites Pedro J. Herrera-Franco The Yucatan's Center for Scientific Research (CICY) Mexico	Keynote Talk S2.4 - Thermoplastic and Thermoset Foams for Structural Applications Nandika D'Souza University of North Texas USA	Keynote Talk S3.4 - Processing Kraft Lignins with Hot, Aqueous, Acetic Acid Solvents: Enhanced Properties for Materials Applications Mark Thies Clemson University USA	Keynote Talk S4.4 - Nanomaterials design and their polymer composite and biomedical applications Vijaya Kumar Rangari Tuskegee University USA

Tuesday, July 24th, 2018 Cont'd

12:05 pm – 12:25 pm	Invited Speaker S1.5 - Measurement of Corn Stalk Fibre Compositional Traits by Fourier-transform Infrared Spectroscopy and the Thermal Stability of Processed Corn Cob Fibres in Polypropylene Composites Peter Pauls University of Guelph Canada	Invited Speaker S2.5 - Formation of Nanoplastics from Biodegradable Plastic Mulch Films and Characterization of their Behavior in Soil Douglas G. Hayes University of Tennessee USA	Invited Speaker S3.5 - Ontario's Agricultural Bioeconomy: Research and Innovation, and Biomass Crops Rajib Hazarika & Mahendra Thimmanagari Ontario Ministry of Agriculture, Food and Rural Affairs Canada	S4.5 - Fluorescent Carbon Dots Zhihui Yi University of Toronto Canada (15 minutes)
12:25 pm – 12:40 pm	S1.6 - The effect of different heat-treatments on interfacial and thermomechanical properties of PLA/TiO ₂ -coated flax fibers composites Marie Bayart Université de Sherbrooke Canada	S2.6 - Bio-carbon Enhanced High- performance Foams using Physical Blowing Agents with Continuous Extrusion Process Yabo Chen University of Toronto Canada	S3.6 - Lipid based nano-reinforced polymers from a poultry by- product: The spent hens Muhammad Safder University of Alberta Canada	S4.6 - Synthesis of Canola Oil Derived Amphiphilic Block Copolymers and their Evaluation as a Potential Drug Carrier Muhammad Arshad University of Alberta Canada
12:40 pm – 1:45 pm		Networking	Lunch (Buffet)	
1:45 pm – 4:05 pm		-	Session I Recent Developments	
1:45 pm – 1:50 pm			and Sponsor Talk	
1:50 pm – 2:00 pm			DA - Agricultural Research Service	
2:00 pm – 2:25 pm		Ramani Narayan M	ichigan State University	
2:25 pm – 2:50 pm	Fabien Resweber PTTMCC			
2:50 pm – 3:15 pm				
3:15 pm – 3:40 pm				
3:40 pm – 4:05 pm	Question & Answer/ Discussion			
4:05 pm - 4:25 pm		Network	king Break	

Tuesday, July 24th, 2018 Cont'd

		Paralle	l Session	
4:25 pm – 6:05 pm	S5 Royal City Ballroom A Bioeconomy and Sustainability Session Co-Chairs: Paul Stuart Srikanth Pilla Lakshmi Raghupathy	S6 Flanders Room Sustainable Thermosets and Coatings Session Co-Chairs: Nathanael Guigo Jaya Shankar Tumuluru	S7 John McCrae Room Cellulose & Chitin for Advanced Materials Session Co-Chairs: Abdellah Ajji Habiba Bougherara	S8 Royal City Ballroom B 3D Printing and Electrospinning Session Co-Chairs: Margaret Sobkowicz Pia Qvintus
4:25 pm – 4:50 pm	Keynote Talk S5.1 - Biomass valorization for a sustainable bio-economy - biobased products innovation at NRC Anthony Anyia National Research Council Canada Canada	Keynote Talk S6.1 - Bioplastics potential for sustainable packaging and coatings Azam Ali University of Otago New Zealand	Keynote Talk S7.1 - Cellulose Nanocrystals in Melt-Processed Composites: Lessons Learned, the Current State, and Progress towards Commercialization Craig Clemons USDA Forest Products Laboratory USA	Keynote Talk S8.1 - Electrospun-based biopolymers: Trends and applications Rodrigo Navia University of La Frontera Chile
4:50 pm – 5:15 pm	Keynote Talk S5.2 - Greener Production of Renewables for Innovative Bioproducts Scott Renneckar University of British Columbia Canada	Keynote Talk S6.2 - Biobased Intumescent Flame Retardant Coating Based on Synergistic Combination of Phytic Acid and Tannic Acid Ramaswamy Nagarajan University of Massachusetts Lowell USA	Keynote Talk S7.2 - Properties of polylactide (PLA)/cellulose nanofiber (CNF) and crystalline nanocellulose (CNC) biocomposites Pierre Carreau Polytechnique Montréal Canada	Keynote Talk S8.2 – Compounding of Water Soluble Support Material for Additive Manufacturing Daniel Schwendemann University of Applied Science Rapperswil (HSR) Switzerland
5:15 pm – 5:35 pm	Invited Speaker S5.3 - Understanding Conformity in Sustainability: Implications for the Circular Economy Ashish Pujari McMaster University Canada	Invited Speaker S6.3 - High-linoleic acid soybean oil: A promising New Feedstock for coatings, paints and other applications Istvan Rajcan University of Guelph Canada	Invited Speaker S7.3 - On the durability of Natural Fibre Composites (NFCs) Habiba Bougherara Ryerson University Canada	Invited Speaker S8.3 - 3D printing - soft and solid biobased constructs for biomedical applications Gary Chinga Carrasco RISE PFI Norway

Tuesday, July 24th, 2018 Cont'd

5:25 nm 5:50 nm	S5.4 - Performance, and evaluation of bio-carbon based composites: Effects of carbon particle size	S6.4 - Epoxidized Plant Oil Based Natural Fiber Composites Vinay R. Patel University of Alberta	S7.4 — Strong, flexible and multifunctional nanocomposites of cellulose nanofibril dispersed by industrial lignin	Invited Speaker S8.4 - The development of 3D printing materials of poly(lactic acid)
5:35 pm – 5:50 pm	Arturo Rodriguez Uribe University of Guelph Canada	Canada	Yingxin Liu Stockholm University Sweden	Kazunari Masutani Kyoto Institute of Technology Japan (20 minutes)
5:50 pm – 6:05 pm	S5.5 - Investigating The Effect Of Hybridization On The Mechanical Performance Of Flax Fibers And Aramids In A Sandwich Structure Ahmed Sarwar Ryerson University Canada	S6.5 - Influence of natural fibers on network formation and thermomechanical properties of an epoxy Mathieu Boutin Laboratoire de Chimie agro- industrielle France	S7.5 - Nanocrystalline Cellulose from Invasive Tunicates - Isolation, Characterization and Applications Matthew J. Dunlop University of Prince Edward Island Canada	S8.5 - Toughening biobased poly(lactic acid)/Poly(buthylene terephthalate) blend by judicious compatibilizers Boon Peng Chang University of Guelph Canada
6:15 pm - 7:30 pm		·	g Reception y Ballroom	
6:30 pm – 8:00 pm	Poster Review Gryphon / Ken Danby Room			
8:00 pm - 10:00 pm	Networking Dinner (Buffet) Royal City Ballroom			

Wednesday, July 25th, 2018

6:30 am – 8:30 am	Registration and Networking Breakfast				
	Parallel Session				
8:30 am – 10:10 am	S9 Royal City Ballroom A Chemical and Bacterial Bio-Refinery Session Co-Chairs: Ajay Dalai Franco Berruti	S10 Flanders Room Lignin and Polysaccharides-based Materials Session Co-Chairs: Aicheng Chen Yaseen Elkasabi	S11 John McCrae Room Lignocellulosic Based Polymers and Composites Session Co-Chairs: Hazizan Md Akil Anh Dung Ngo	S12 Royal City Ballroom B Starch and Protein Biomaterials Session Co-Chairs: Sudip Rakshit Vijaya Kumar Rangari	
8:30 am – 8:55 am	Keynote Talk S9.1 - Biorefinery of Himalayan Cedar Wood (Cedrus deodara) Satya Narayan Naik Indian Institute of Technology India	Keynote Talk S10.1 - Lignin Thermoplastic Products: En Route to Commercialization Hongbo Li National Research Council Canada Canada	Keynote Talk S11.1 - Using DDGS-Soy Flour Mixtures as Adhesives for Wood Composites Veera Boddu US Department of Agriculture (USDA) USA	Keynote Talk S12.1 - A New Approach to Produce Starch Graft Copolymers and Grafted Starch Nanoparticles via Nitroxide Mediated Polymerization Michael Cunningham Queen's University Canada	
8:55 am – 9:20 am	Keynote Talk S9.2 - Advances in biomass preprocessing, pretreatments and control systems Jaya Shankar Tumuluru Idaho National Laboratory USA	Keynote Talk S10.2 - Low temperature and high efficiency biomass fuel cell and bio- hydrogen production Yulin Deng Georgia Tech USA	Keynote Talk S11.2 - Performance of Oriented Polyethylene Furanoate (O-PEF) Andrea Arias Corbion Purac BV The Netherlands	Keynote Talk S12.2 - Development of Keratin and Fibroin Resins for Fabricating Sustainable Materials Using Protein Fibers Shinji Hirai Muroran Institute of Technology Japan	

Wednesday, July 25th, 2018 Cont'd

9:20 am – 9:40 am	S9.3 - Functional metagenomics and bacterial genome engineering for PHA production Trevor Charles University of Waterloo Canada	Invited Speaker \$10.3 - Synthesis and application of adhesives from glycerin-based thermoplastics Eric Cochran Iowa State University USA	S11.3 - Characterization of Viscoelastic Propreties of Wood Polymer Composites As Function of Temperature Mostafa Tazi Universite De Quebec En Abitibi- Temiscamingue Canada (15 minutes)	Invited Speaker S12.3 - Novel Glycoprotein Conjugates via a Combined Electrospinning - Annealing process Jochen Weiss University of Hohenheim Germany
9:40 am – 9:55 am	S9.4 - Real-time analysis of syngas quality for predictive control of fluidized bed gasification of biomass Kurt Woytiuk University of Saskatchewan Canada	S10.4 - The effect of amylose and amylopectin content for the improvement of adhesion in starch-based, formaldehyde free resins Nicole Tratnik University of Toronto Canada	S11.4 - Milkweed floss surface modification to enhance fiber adhesion in polylactic acid biocomposites Pierre Ovlaque University of Sherbrooke Canada	S12.4 - Effect of Starch Nanocrystals Grafted by Lactic acid (SNCs-g-LA) on the Crystallization behaviour and Phase transitions of PLA Farnaz Sharafi Zamir University of Sherbrooke Canada
9:55 am – 10:10 am	S9.5 - Fruitful transformation of rotten tomatoes into a substrate for bioplastic production Aarti Sharma Amity University India	S10.5 - UV-curable bionanocomposite: Incorporating crystalline nanocellulose through a urethane styrene prepolymer (Anna) Magdalena Hubmann University of Alberta Canada	S11.5 - Characterization and application of a natural polymer obtained from Hydrangea macrophylla as a thermal insulation bio-aggregate Juan Pablo Cardenas Universidad de La Frontera Chile	S12.5 – Improvement in Mechanical Properties of Silk Resin with Raw Silk Dispersion Shota Akioka Muroran Institute of Technology Japan
10:10 am – 10:30 am	Networking Break			

Wednesday, July 25th, 2018 Cont'd

10:30 am – 12:50 pm	Plenary Session II Sustainable Manufacturing		
10:30 am – 10:35 am	Introduction and Sponsor Talk		
10:35 am – 10:45 am	Moderator: Atul Bali Competitive Green Technologies		
10:45 am – 11:10 am	Sanjay Mehta Indorama Ventures		
11:10 am – 11:35 am	Jennifer Meier Varroc Lighting Systems		
11:35pm – 12:00 pm	Hamdy Khalil The Woodbridge Group		
12:00 pm – 12:25 pm	Karen Stoeffler National Research Council Canada		
12:25 pm – 12:50 pm	Question & Answer/ Discussion		
12:50 pm- 2:00 pm	Networking Lunch (Buffet)		
2:00 pm – 4:20 pm	Plenary Session III Circular Economy Towards Mitigating Climate Change		
2:00 pm – 2:05 pm	Introduction and Sponsor Talk		
2:05 pm – 2:15 pm	Moderator: Amar Mohanty University of Guelph		
2:15 pm – 2:40 pm	Emma Chow Ellen MacArthur Foundation		
2:40 pm – 3:05 pm	Libby Peake Green Alliance		
3:05 pm – 3:30 pm	Yuezhong Meng Sun Yat-sen University		
3:30 pm – 3:55 pm	John Pigott Club Coffee		
3:55 pm – 4:20 pm	Question & Answer/ Discussion		
4:30 pm – 4:50 pm	Networking Snack Break		
4:50 pm	Free Time (Dinner on Your Own)		
5:00 pm – 6:00 pm	Optional Tour – Bioproducts Centre Facility Tour (BDDC), University of Guelph Meet at Registration Desk		

Thursday, July 26th, 2018

6:30 am – 8:30 am		Registration and Networking Breakfast		
8:30 am – 10:10 am		Parallel '	Workshops	
	3D Printing of Biobased Materials for Applications in Manufacturing and Biomedical Devices Royal City Ballroom A		Biocomposites for Technical Applications - Life Cycle and Sustainability Royal City Ballroom B	
8:30 am – 10:10 am	Moderator: Gary	Chinga Carrasco	Moderator: A	shish Pujari
	Frank Ehrig Institute for Materia	al Science and Plastics Processing	Hans-Josef Endres IfBB - Institute	for Bioplastics and Biocomposites
	Jun Yang University	of Western Ontario	Madina Shamsuyeva Fraunhofe	er Institute for Woods Research
10:10 am – 10:35 am	Networking Break			
	Parallel Session			
10:35 am – 12:15 pm	S13 Flanders Room Lignin Extraction and Applications Session Co-Chairs: Mark Thies Hongbo Li	S14 Royal City Ballroom A Smart Packaging and Pollution Awareness Session Co-Chairs: Pierre Carreau Scott Renneckar	S15 John McCrae Room Biofiller Based Composites Session Co-Chairs: M Cengiz Altan Craig Clemons	S16 Royal City Ballroom B Biomass Pyrolysis and By-product Applications Session Co-Chairs: Rakesh Gupta Ramaswamy Nagarajan Yulin Deng
10:35 am – 11:00 am	Keynote Talk S13.1 - Green and Energy-saving Technologies for Lignocellulose Biomass Processing Kecheng Li Western Michigan University USA	Keynote Talk S14.1 - Radiation grafting on natural films Monique Lacroix INRS-Institut Armand-Frappier Quebec	Keynote Talk S15.1 - Starch composite packaging made by compression molding Gregory Glenn USDA-ARS USA	Keynote Talk S16.1 - Sustainable chemicals and products from fast pyrolysis bio-oils Yaseen Elkasabi USDA-ARS USA

Thursday, July 26th, 2018 Cont'd

	Keynote Talk	Invited Speaker	Keynote Talk	Keynote Talk
	S13.2 - Electrochemical Extraction	S14.2 - Influence of Natural And	S15.2 - Progress in Kenaf fibre	S16.2 - Production Of Bio-Char For
	and Oxidation of Lignin	Artificial Weathering on Bioplastics	Reinforced Composites (KFRC)	Value-Added Building Materials
	Aicheng Chen	And Biocomposites For Food	research at Universiti Sains	Franco Berruti
11.00 am 11.25 am	University of Guelph	Packaging	Malaysia (USM)	Western University
11:00 am – 11:25 am	Canada	Tomas J. Madera-Santana	Hazizan Md Akil	Canada
		Centro de Investigación en	Universiti Sains Malaysia (USM)	
		Alimentación Y Desarrollo (CIAD)	Malaysia	
		Mexico		
		(20 minutes)		
	Invited Speaker	Invited Speaker	Invited Speaker	Invited Speaker
	S13.3 - Production and	S14.3 - Hydrophobic Starch-	S15.3 - Understanding the Photo	S16.3 - Characterization of coconut
	flocculation performance of kraft	Laurate Graft Polymers: Synthesis,	Cure Kinetics and Mechanical	shell activated carbon to serve as a
	lignin (KL), acrylamide (AM) and	and Structure – Property	Performance of Natural Fiber	potential green filler for rubber
11:25 am – 11:45 am	2-[(methacryloyloxy) ethyl]	Correlations	Reinforced Epoxidized Vegetable	industry; comparative study with
11.25 am - 11.45 am	trimethylammonium chloride	Tizazu Mekonnen	Oil	carbon black
	(DMC) copolymers	University of Waterloo	Srikanth Pilla	Nadras Othman
	Pedram Fatehi	Canada	Clemson University	Universiti Sains Malaysia
	Lakehead University		USA	Malaysia
	Canada			
	S13.4 - High Mechanical and	S14.4 Production of Bio-carbon	S15.4 - Influence of the pyrolysing	S16.4 - Structural Development of
	Transport Enhancement in	Using Oxidative Procedure and	temperature of biomass on the	Biochar Derived from Cattle Manure
	Composites of Chitin Nano-	Hydrothermal Carbonization of	morphology of the bio-composites	Under Exposure to Subcritical and
11:45 am – 12:00 pm	whiskers	Spent Liquor from Paper Recycling	Amandine Codou	Supercritical Water
11110 dill 12100 pill	Muhammad Anwer	Industry	University of Guelph	Sonil Nanda
	University of Toronto	Zainab AL-Kaabi	Canada	Western University
	Canada	University of Guelph		Canada
		Canada		
	S13.5 - Application of lignin	S14.5 - Production and	S15.5 - Bacterial Cellulose-assisted	S16.5 - Rapid removal of
	containing nanocellulose fibrils to	characterization of coconut-coir	Delignified Wheat Straw-PVA	phosphates, nitrates, lead, and
	enhance adhesion properties of	biochars for optimization of Cr (VI)	based Biocomposites with novel	cadmium from wastewater using
12:00 pm – 12:15 pm	pMDI wood adhesives	adsorption in aqueous solution	Characteristics	fast pyrolysis biochar
p	Heyu Chen	Chinmayee Acharya	Muhammad Asgher	Akila G Karunanayake
	University of Toronto	CSIR- Institute of Minerals and	University of Agriculture	Biochar Supreme Inc.
	Canada	Materials Technology	Pakistan	USA
		India		

12:15 pm – 1:30 pm		Networking Lunch (Buffet)				
		Parallel Session				
1:30 pm – 3:25 pm	S17 Flanders Room Biopolymer Processing and Modeling Session Co-Chairs: Nandika D'Souza Pedro J. Herrera-Franco	S18 Royal City Ballroom A Biobased Polymers and Biocomposites Session Co-Chairs: Monique Lacroix Anil Netravali	S19 John McCrae Room Sustainable Packaging Solutions Session Co-Chairs: Alain Guinault Azam Ali	S20 Royal City Ballroom B Bioeconomy and Innovation Session Co-Chairs: Anthony Anyia Qiang Liu		
1:30 pm – 1:55 pm	Keynote Talk S17.1 - Ultra-High Speed Reactive Twin Screw Extrusion for Compatibilizing Biobased Polymer Blends Margaret Sobkowicz UMass Lowell USA	Keynote Talk S18.1 - Biobased furanic polymers, composites and nanohybrids Nathanael Guigo University Nice Sohia Antipolis France	Keynote Talk S19.1 - Sustainable Polymer Packaging Through Material Reduction and the Use of Renwable Materials Abdellah Ajji Polytechnique Montréal Canada	Keynote Talk \$20.1 - Building Canada's BioEconomy Cluster: Value Chain Gaps and their Solutions Paul Stuart Polytechnique Montréal Canada		
1:55 pm – 2:20 pm	Invited Speaker \$17.2 - Performance enhancement of sustainable composites through hybrid technique for light weight applications Hom Dhakal University of Portsmouth United Kingdom (20 minutes)	Keynote Talk S18.2 - Technical Applications of Natural Fibres in Biocomposites Rajesh Anandjiwala Nelson Mandela University South Africa	Keynote Talk S19.2 - Identifying best markets for the exploitation of innovative sustainable food packaging solutions Susanne Braun University of Hohenheim Germany	Keynote Talk S20.2 - Novel Activated Carbon Materials Development from biomass for Various Industrial Applications Ajay Dalai University of Saskatchewan Canada		

Thursday, July 26th, 2018 Cont'd

	S17.3 - Develop instrumental	S18.3 - Introduction of A Novel	Invited Speaker	Invited Speaker
2:20 pm – 2:40 pm	methods for mold evaluation and	Resilience Capped WPC	S19.3 - Developing Biobased	S20.3 - Innovative Technology for
	foreign crops detection of flax and	Rugui Dong	Polymeric Products for Slow	Quality Improvement Of Plastic
	hemp straws	Jiajing WPC	Release of Water or Fertilizers in	Granules Produced From Recycled
	Jianbo Lu	China	Agriculture	Plastics Waste
	Alberta Agriculture and Forestry	(15 minutes)	Qiangxian Wu	Deepali Jadia
	Canada	(Central China Normal University	Enviro Remediation & Research
	(15 minutes)		China	Laboratory (ERRL)
	()			India
	S17.4 – Process-property	S18.4 - Preparation and thermal	S19.4 - Nanostructured Super-	S20.4 - Synthesis of Bio-based
	relationships in fused deposition	properties of polyethylene	toughness Biodegradable Materials	Unsaturated Polyamides from
	modeling of poly (lactic acid)	glycol/expanded graphite as novel	by Reactive Melt Blending	Canola oil Derived Monomer
2:40 pm – 2:55 pm	Andrew Anstey	form-stable phase change material	Feng Wu	Reza Ahmadi
	University of Guelph	for indoor energy saving	University of Guelph	University of Alberta
	Canada	Yingni Yang	Canada	Canada
		Beijing Forestry University		
		China		
	S17.5 - Biobased Rubber-	S18.5 - Nanocellulose in Plastic	S19.5 - Comparative experimental	S20.5 - Wheat Straw Torrefaction
	toughened Poly(trimethylene	Composites for Automotive	and techno-economic analysis of	and Pyrolysis in a Horizontal
	terephthalate) (PTT):	Applications	production cost of renewable diesel	Moving Bed Pilot Plant
2:55 pm – 3:10 pm	Morphological, Mechanical, and	Geoffrey Fisher	from woody biomass and	William Campbell
	Miscibility Characteristics	Performance BioFilaments Inc.	agricultural residue	University of Saskatchewan
	Michael Snowdon	Canada	Madhumita Patel	Canada
	University of Guelph		University of Alberta	
	Canada		Canada	
3:10 pm – 3:25 pm	S17.6 - TBD	S18.6 - Reinforcement effect of	S19.6 – Downstream corn oil based	S20.6 - Characterization of Chicken
		poly(glycerol succinate-co-	polymer: a green substitution of	Feather Biocarbons and Chicken
		maleate)-grafted cellulose	petroleum based polymer	Feather Biocarbon Composites
		nanocrystals on toughened	Suman Thakur	Zonglin Li
		polylactic acid biocomposites	University of Guelph	University of Guelph
		Mohamed A. Abdelwahab	Canada	Canada
		University of Guelph		
		Canada		

Thursday, July 26th, 2018 Cont'd

3:25 pm – 4:00 pm	Networking Break				
4:00 pm – 6:00 pm	Thematic Panels (Author names not in order of appearance)				
	Wood plastic composites (WPC): North America, Europe and China in Perspective Flanders Room	Circular Economy Towards Innovation in Industries John McCrae Room			
4:00 pm – 6:00 pm	Moderator: Mohini Sain University of Toronto Tom Jacques Hickory Dickory Decks Wayne Song CCLINK Materials Co. Ltd. QingWen Wang South China Agricultural University Andrew Clements Bright Claim Question & Answer/ Discussion	Moderator: Manjusri Misra University of Guelph Joe Hruska Canadian Plastics Industry Association (CPIA) Ranganath Shastri Expert Plastics Solutions de México Pierre Boisseau Enerkem Atul Bali Competitive Green Technologies Question & Answer/ Discussion			
6:00 pm – 6:30 pm	Conference Banquet Networking Reception Royal City Ballroom				
6:30 pm – 10:00 pm	Conference Banquet* Royal City Ballroom *Banquet Addresses to Start at 7:00 pm				

Friday, July 27th, 2018

6:30 am - 8:30 am	Registration and Networking Breakfast				
8:30 am – 10:40 am	Plenary Session IV Green Technology and Government Policy & Commercialization Strategy				
8:30 am – 8:35 am	Introduction and Sponsor Talk				
8:35 am – 8:45 am	Moderator: Rodrigo Navia University of La Frontera				
8:45 am – 9:10 am	Anil Netravali Cornell University				
9:10 am – 9:35 am	Jim Grey IGPC Ethanol				
9:35 am – 10:00 am	Kate Lewis U.S. Department of Agriculture				
10:00 am – 10:25 am	Murray McLaughlin Bioindustrial Innovation Canada				
10:25 am – 10:40 am	Question & Answer/ Discussion				
10:40 am – 11:00 am	Networking Break				
	Parallel Session				
11:00 am - 12:55 pm	S21 Royal City Ballroom A Agriculture, Bio-refinery and Circular Economy Session Co-Chairs: Daniel Schwendemann Satya Narayan Naik Qiangxian Wu	S22 John McCrae Room Green Chemistry and Smart Materials Session Co-Chairs: Michael Cunningham Aji Mathew	S23 Flanders Room Advanced Biocomposites for Structural Applications Session Co-Chairs: Hom Dhakal Mona Duhme	S24 Royal City Ballroom B Biodegradability and Plastic Endof-Life Management Session Co-Chairs: Veera Boddu Takashi Aoki	
11:00 am – 11:25 am	Keynote Talk S21.1 - Studies of the kinetics of enzymatic saccharification of waste biomass Bandaru Ramarao State University of New York CESF USA	Keynote Talk S22.1 - Monomers, Biopolymers, and Biomaterials from Renewable Resources Aman Ullah University of Alberta Canada	Keynote Talk S23.1 - Applications of Bio-Based FRP Composites in Civil Engineering Construction Amir Fam Queen's University Canada	Keynote Talk S24.1 - A bacterium that degrades and assimilates poly(ethylene terephthalate) and its enzymes involved in the degradation Kohei Oda Kyoto Institute of Technology Japan	

Friday, July 27th, 2018 Cont'd

	Invited Speaker	Keynote Talk	Invited Speaker	Keynote Talk	
	S21.2 - Development of plant	S22.2 - Phytoglycogen	S23.2 - Hierarchical structures	S24.2 - Technological Advances to	
	protein-based bioplastic for	nanoparticles: soft colloids from	assembled from cellulose nanofibril	process End-of-Life Plastics (ELPs):	
11,25 am 11,50 am	industrial applications	nature	for advanced applications	A contribution towards Circular	
11:25 am – 11:50 am	Qiang Liu	John Dutcher	Feng Jiang	Economy	
	Agriculture and Agri-Food Canada	University of Guelph	University of British Columbia	Lakshmi Raghupathy	
	Canada	Canada	Canada	TERI School of Advanced Studies	
	(20 minutes)		(20 minutes)	India	
	S21.3 - Encapsulation and	S22.3 - Light Emitting Bio-carbon	S23.3 - Colza cane bio-aggregate	S24.3 - Improving the moisture	
	Triggered Release of Aldehydes	Maria Semeniuk	as blown-in thermal insulator	durability of natural fibre	
	from Their Imidazolidine Precursors	University of Toronto	Mariana Palumbo	composites	
11:50 am – 12:05 pm	for Shelf-life Extension of Fruits	Canada	Universitat Rovira i Virgili	Aart Willem van Vuure	
	Caihua Shi		Spain	KU Leuven	
	University of Guelph			Belgium	
	Canada				
	Invited Speaker	Invited Speaker	Invited Speaker	Invited Speaker	
	S21.4 - Light Weighting in	S22.4 - Light-Responsive Polymers	S23.4 - Sustainability and Circular	S24.4 - Biodegradability Testing of	
	Automotive Interior Trim Panels	as Reversible Soft-Bonding	Economy for Bio-plastics by R9	Bioplastics In Aerobic Composting	
12:05 pm – 12:25 pm	Murali Reddy	Materials	ideology	Harsh Jadia	
12:00 pm 12:20 pm	CpK Interior Products Inc.	Christopher Barrett	Harinder Tamber	Enviro Remediation & Research	
	Canada	McGill University	Polymer Resin & Film Extrusion	Laboratory (ERRL)	
		Canada	(PRFE) Consultants Inc.	India	
			Canada		
	S21.5 - Thermal, Mechanical and	S22.5 - Synergistic evidence of Fe	S23.5 - Mechanical Properties of	S24.5 - Flax as an alternative fiber	
	Crystallization Behaviour of PCL-	and Co nitrates catalysts on	Poplar Fibers	source in composites: an LCA	
	PLA type Random and Diblock	Miscanthus grass graphitization	Keller Joshell Hadassah George	uncovering aspects of circularity	
12.25 12.40	Copolymers bearing Different Block	Jean-Mathieu Pin	University of Western Ontario	including the fate of co-products	
12:25 pm – 12:40 pm	<i>Length</i> Neha Mulchandani	University of Guelph Canada	Canada	and their counterfactuals	
		Canada		Alejandra Gomez-Campos University of Toulouse	
	Indian Institute of Technology Guwahati			France	
	India			France	
	iliula	Notworking Lunch (Ruffe	at) and Closing Coremony		
12:40 pm – 2:00 pm	Networking Lunch (Buffet) and Closing Ceremony Royal City Ballroom				
2.00 2.00	Optional Tour – Bioproducts Centre Facility Tour (BDDC), University of Guelph				
2:00 pm – 3:00 pm	Meet at Registration Desk				