

Welcoming Remarks by the Conference Chair

Dear PPS Friends,

On behalf of the Organizing Committee, I would like to welcome each of you warmly to the PPS Americas Conference 2012 in Niagara Falls, Canada.

It is very encouraging to note that polymers (and polymer-based composites) have created a lot more new applications compared to metallic and ceramic materials, and that polymer products have been replacing numerous metallic, ceramic, wood, and paper products in various industries. For example, usage of polymer parts in automobiles increased from 1% in 1960 to 7% in 2000, and to 15% in 2006 by weight.



We are watching rapidly changing demands, challenges, and opportunities as the resin prices are going up, new technologies are available, emerging Chinese companies are actively moving in the markets, etc. I have personally observed that any products based on inexpensive technologies without much scientific component could not survive in the markets. In this context, there is a strong need of: (i) in-depth understanding of the existing technologies and (ii) science-based innovations in materials, products, and manufacturing processes.

Our PPS Conferences have been a great channel of disseminating the scientific and technological advancements for the polymer processing area. PPS Americas Conference 2012 will serve the role of satisfying these two needs of in-depth understanding and science-based innovations.

I would like to acknowledge the great efforts made by the Organizing Committee consisting of Professor Hani Naguib, Guida Williamson, Dr. Sunny Leung, Dr. Amir Ameli, Dr. Anson Wong, Reza Rizvi, Lun Howe Mark, Raymond Chu, Reza Nofar, Konstantin Kovalski, Shahrzad Gaffari, Peter Jung, and Vahid Shaayegan. Without their sacrifice and commitment, this event could not have been organized successfully. The support of our sponsors DSM Xplore and Leistritz and our industry displays have assisted greatly in bringing you a quality event with a fantastic program. And finally, I would like to thank The Department of Mechanical and Industrial Engineering at the University of Toronto for their countless hours of administrative help and support of this exciting field of science.

Welcome again.

A handwritten signature in black ink, appearing to be 'Chul Park', written in a cursive style.

Chul Park

Chair of PPS Americas Conference 2012

**PPS Americas Conference 2012
Sponsors and Industry Display Participants**

Sponsors



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PPS 2012 Organizing Committees

Conference Chair	<i>Chul Park</i>
Technical Program Chair	<i>Hani Naguib</i>
Technical Committee and Advisors	<i>Adbellah Aji</i> <i>Phil Bates</i> <i>Pierre Carreau</i> <i>Michel Huneault</i> <i>Musa Kamal</i> <i>UT Sundararaj</i> <i>John Vlachopoulos</i>
Organizing Committee	<i>Amir Ameli</i> <i>Raymond Chu</i> <i>Shahrzad Gaffari</i> <i>Peter Jung</i> <i>Sunny Leung</i> <i>Lun Howe Mark</i> <i>Reza Nofar</i> <i>Reza Rizvi</i> <i>Vahid Shaayegan</i> <i>Anson Wong</i>
Conference Coordinator	<i>Guida Williamson</i>

Polymer Processing Society

The Polymer Processing Society (PPS) was founded in March 1985 at the University of Akron, Akron, Ohio, USA. The intent was to provide a mechanism and format for interaction and presentation of research results in the international polymer processing community.

The goals of the society are to foster scientific understanding and technical innovation in polymer processing by providing a discussion forum for the worldwide community of engineers and scientists in the field. The thematic range of the PPS encompasses all formulation, conversion and shaping operations applied to polymeric systems in the transformation from their monomeric forms to commercial products.

Membership in PPS is open to all researchers in the field, and to all persons who feel the activities of the society advance their professional development.

<i>PPS Executive Officers</i>	
President:	Ica Manas-Zloczower (USA)
President-Elect:	Gluseppe Titomanlio (Italy)
Past President:	Takeshi Kikutani (Japan)
Secretary:	Evan Mitsoulis (Greece)
Treasurer:	M. Cengiz Altan (USA)
IPP - Chief Editor:	Andrew Hrymak (Canada)
PPP – Chief Editor:	Musa Kamal (Canada)
Member-at-Large:	Sati Bhattacharya (Australia)
Member-at-Large:	Mosto Bousmina (Morocco)

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Canada:	UT Sundararaj
China:	X. Xi / Qi Wang
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Germany:	Volker Altstaedt and Hans-Joachim Radusch
Hungary/South Africa:	Laszlo Halasz
India:	Anup K. Ghosh
Iran:	Hossein Nazockdast
Israel:	Sam Kenig
Japan:	Toshitaka Kanai and Kiyohito Koyama
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Saudi Arabia:	I. A. Hussein
Taiwan:	Shih-Jung Liu
Thailand:	Krisda Suchiva
Turkey:	Yusuf Menciloglu
UK:	Phil D. Coates
USA:	Marino Xanthos

General and Special Symposia

Symposia		Chairs	
G01	Biodegradable and Sustainable Polymers	Michel Huneault	Amar Mohanty
G02	Blow Molding, Rotomolding, and Thermoforming	Celine Bellehumeur	
G03	Blends, Properties, and Structure	UT Sundararaj	Roland Hingmann
G04	Composites	Phil Bates	Marie-Claude Heuzey Martin Bureau
G05	Crystallization	Jean-Marc Haudin	Abdellah Ajji
G06	Mixing and Extrusion	Sebastian Canevarolo	Dilhan Kalyon
G07	Films and Fibers	Takeshi Kikutani	Miko Cakmak
G08	Foams	Volker Altstaedt	Masahiro Ohshima
G09	Injection Molding	Musa Kamal	Tom Turng
G10	NanoMaterials and Nano-composites	Mosto Bousmina	Masami Okamoto
G11	Numerical Computation	Andrew Hrymak	Patrick Anderson
G12	Reactive Processing	Costas Tzoganakis	
G13	Rheology	Savvas Hatzikiriakos	Joao Maia Jose Covas
S01	Industrial Session	John Perdikoulis	Charles Martin
S03	Polymer Coatings and nanocoatings	John Vlachopoulos	

Registration

Conference registration will commence on Monday, May 21st, at 1:00 pm at the registration desk located in the *Oakes Foyer* on the Mezzanine level. Onsite registration is also available at the registration desk during the conference.

Registration Fees:

PPS Members	CAN \$650
Non Members	CAN \$730
Students (without banquet)	CAN \$230
Exhibitors (includes full conference)	CAN \$1300
Niagara Tour & Winery Banquet (Guest)	CAN \$150
One Day Only (does not include banquet)	CAN \$275

The registration for non members includes one year membership in the Polymer Processing Society beginning after the conference. The full registration fees will cover the reception on Monday, the Niagara Tour & Winery Banquet dinner on Wednesday as well as all lunches. All fees include HST.

- Please note that you must register first and then submit a cheque as payment.
- Credit cards are NOT being accepted at this time.
- Payment onsite is only available by cheque or exact cash amount in Canadian Funds.
- Receipts will only be available onsite upon check in at registration.

Submit Payment by Cheque:

Cheque payable to: University of Toronto
Mail to: PPS Americas Conference 2012
176 Endeavour Drive
Cambridge, ON N3C 4C9
Canada

Payments

- The preferred method of payment is by cheque in Canadian Funds.
- Cancellation prior to May 1st is subject to a \$50 processing fee. Cancellations must be submitted in writing to pps@boldadvantage.com. Cancellations after May 1st are not refundable.
- For further information or questions, please contact Guida Williamson at (519) 249-0545 or via email at pps@boldadvantage.com.
- If you would like to be on our mailing list, please send us your email.

Instructions for Speakers

Keynote oral papers are limited to 30 minutes and Regular oral presentations are limited to 20 minutes, including approximately 5 minutes for questions, discussion and changeover of the session. Speakers are requested to present themselves to their session chair 15 minutes before the beginning of the session. The presentation rooms will be equipped with projectors, computers and laser pointers.

Poster Instructions

The Poster session will be held in the *Oakes Foyer*, Wednesday May 23rd from 04:00 pm to 05:30 pm. The maximum poster dimensions are 34 inches (86 cm) high by 26 inches (66 cm) wide. The posters should be installed on the poster boards according to the assigned poster number. The posters should be installed from Tuesday May 22nd morning to Thursday May 23rd afternoon till 03:00 pm.

PPS Americas 2012 Best Student Poster Competition

The organizing committee is pleased to announce the best student poster competition as part of the PPS Americas 2012 Conference in Niagara Falls. Posters will be judged by a committee and the finalists are required to present their posters at the poster session on Wednesday, May 23, 2012. All finalists will be honored during the *Poster Competition Award Ceremony* held in the *Oakes South Ballroom* on Thursday, May 24, 2012, at 8:20 am.

Internet Facility

Complimentary Wireless Internet access is available at the Lobby level and at the *Great Room Lounge & Bar*. Please visit the *Front Desk* to obtain an access code for the service.

Wired and Wireless High Speed Internet access is also available to other areas of the hotel at a daily rate of \$12.95 CAD + taxes. Please visit the *Front Desk* for details.

Niagara Tour & Winery Banquet

The *Niagara Tour & Winery Banquet* is scheduled on Wednesday, May 23, 2012 from 5:30 pm to 8:00 pm, following the Poster session. Shuttle buses will depart the *Marriott Gateway on the Falls* hotel at 5:15 pm and at 6:15 pm. Participants are advised to get on the bus at the parking lot side entrance by the pool 15 minutes prior to the scheduled departure time.

Breakfast and Coffee Breaks

Breakfast

For *Marriott Gateway on the Falls* guests, breakfast vouchers are included with your stay and will be issued at the *Front Desk* upon checking-in.

Coffee Breaks

Coffee and tea are provided.

Summary of Events

Date	Time	Event	Location
Monday May 21	13:00 – 20:00	Registration	Oakes Foyer
	18:00 – 21:00	Welcome Reception	Oakes Foyer
Tuesday May 22	07:00 – 08:15	Coffee/Tea	Oakes Foyer
	08:15 – 08:30	Opening Ceremony	Oakes South
	08:30 – 09:15	Plenary Lecture	Oakes South
	09:20 – 10:10	Technical Program	Various conference rooms
	10:10 – 10:30	Coffee Break & Industry Displays	Oakes Foyer
	10:30 – 12:20	Technical Program	Various conference rooms
	12:20 – 14:00	Lunch & Industry Displays	Oakes Foyer
	14:00 – 14:45	Plenary Lecture	Oakes South
	14:50 – 15:40	Technical Program	Various conference rooms
	15:40 – 16:00	Coffee Break & Industry Displays	Oakes Foyer
	16:00 – 17:40	Technical Program	Various conference rooms
Wednesday May 23	07:00 – 08:30	Coffee/Tea	Oakes Foyer
	08:30 – 09:15	Plenary Lecture	Oakes South
	09:20 – 10:10	Technical Program	Various conference rooms
	10:10 – 10:30	Coffee Break & Industry Displays	Oakes Foyer
	10:30 – 12:20	Technical Program	Various conference rooms
	12:20 – 14:00	Lunch & Industry Displays	Oakes Foyer
	14:00 – 14:45	Plenary Lecture	Oakes South
	14:50 – 15:40	Technical Program	Various conference rooms
	15:40 – 16:00	Coffee Break & Industry Displays	Oakes Foyer
	16:00 – 17:40	Poster Session	Oakes Foyer
	17:30 – 20:00	Niagara Tour & Winery Banquet	
Thursday May 24	07:00 – 08:20	Coffee/Tea	Oakes Foyer
	08:20 – 08:30	Poster Competition Award Ceremony	Oakes South
	08:30 – 09:15	Plenary Lecture	Oakes South
	09:20 – 10:10	Technical Program	Various conference rooms
	10:10 – 10:30	Coffee Break & Industry Displays	Oakes Foyer
	10:30 – 12:20	Technical Program	Various conference rooms
	12:20 – 14:00	Lunch & Industry Displays	Oakes Foyer

Thursday May 24	14:00 – 14:45	Plenary Lecture	Oakes South
	14:50 – 15:40	Technical Program	Various conference rooms
	15:40 – 16:00	Coffee Break & Industry Displays	Oakes Foyer
	16:00 – 17:20	Technical Program	Various conference rooms
	17:20 – 18:00	Closing Ceremony	Oakes South

PPS Americas Conference 2012 Schedule

Time	Tuesday, May 22, 2012	Wednesday, May 23, 2012	Thursday, May 24, 2012
08:20 - 08:30			Room: Oakes South Poster Competition Award Ceremony
08:30 - 09:15	Room: Oakes South Ballroom Chair: Ica Manas-Zloczower Plenary Lecture: <i>Elastomeric Fibers: Processing-structure-property relationship</i> Takeshi Kikutani, Tokyo Institute of Technology, Japan	Room: Oakes South Ballroom Chair: Pierre Carreau Plenary Lecture: <i>Graphene-based nanocomposites</i> Mosto Bousmina, Institute of Nanomaterials and Nanotechnology, Morocco	Room: Oakes South Ballroom Chair: Andrew Hrymak Plenary Lecture: <i>An overview of polymer processing instabilities</i> Jean-Francois Agassant, Ecole des Mines de Paris, France
Room	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara
Session	T11 T21 T31 T41 T51	W11 W21 W31 W41 W51	R11 R21 R31 R41 R51
Symposia	G01 G04 G03 G02 G09	G09 G02 G07 G03 G01	G09 G06 G12 G08 S0
09:20 - 09:50	G01-258K G04-277K G03-275K G02-24K G09-101K	G09-65K G09-36K G07-279K G03-246K S03-266K	G09-16K G06-145K G12-231K G08-93K S01-268K
09:50 - 10:10	G01-175 G04-271K G03-53 G02-136 G09-219	G09-102 G02-137 G07-130 G03-148 S01-46	G09-17 G06-88 G12-198 G08-21 S01-158
10:10 - 10:30	Coffee Break and Industry Displays in Oakes Foyer	Coffee Break and Industry Displays in Oakes Foyer	Coffee Break and Industry Displays in Oakes Foyer
Room	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara
Session	T12 T22 T32 T42 T52	W12 W22 W32 W42 W52	R12 R22 R32 R42 R52
Symposia	G01 G05 G13 G11-194K G07-262K G10-269K	G01 & G04 G05 G10 G08 G10	G10 G10 G12 & G10 G08 G09
10:30 - 11:00	G01-250K G13-273K G05-119 G13-11 G07-245 G10-225	G04-5K G05-74K G04-276K G08-263K G10-146K	G10-240K G10-193K G10-49K G08-270K G09-241K
11:00 - 11:20	G01-19 G05-189 G13-12 G07-59 G10-22	G01-28 G05-39 G10-121 G08-185 G10-164	G10-45 G10-43 G12-181 G08-201 G09-281
11:20 - 11:40	G01-205 G05-56 G13-117 G07-96 G10-127	G01-89 G05-120 G10-255 G08-179 G10-26	G10-64 G10-2 G12-204 G08-226 G09-11
11:40 - 12:00	G01-6 G05-192 G04-72 G07-98 G10-33	G01-4 G05-17 G10-3 G08-188 G10-8	G10-18 G10-34 G10-63 G08-156 G09-38
12:00 - 12:20	Lunch and Industry Displays in Oakes Foyer	Lunch and Industry Displays in Oakes Foyer	Lunch and Industry Displays in Oakes Foyer
12:20 - 14:00	Room: Oakes South Ballroom Chair: Musa Kamal Plenary Lecture: <i>Modeling of process-induced microstructure in molded long-fiber composites</i> Charles Tucker, University of Illinois, Urbana-Champaign, US	Room: Oakes South Ballroom Chair: John Vlachopoulos Plenary Lecture: <i>Hollow spherical allophone nanoparticles in soil and their environmental applications</i> Masami Okamoto, Toyota Technological Institute, Japan	Room: Oakes South Ballroom Chair: Chul Park Plenary Lecture: <i>Integrative plastics technology: academic and industry co-operation for mutual benefit</i> Christian Hopmann, IKV, Germany
Room	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara	Oakes S Oakes NW Oakes NE Ontario Niagara
Session	T13 T23 T33 T43 T53	W13 W23 W33 W43 W53	R13 R23 R33 R43 R53
Symposia	G01 G06 G03 G11 G04	G10 S01 G06 G08 G09	G01 G13 G03 S03 G04
14:50 - 15:20	G07-257K G06-31K G03-147K G11-264K G04-259K	G10-239K S01-6 G06-10K G08-168K G09-149K	G13-272K G13-12K G03-249K G10-274K G13-260K
15:20 - 15:40	G01-197 G06-234 G03-19 G11-14 G10-280	G10-227 S01-75 G06-163 G08-207 G09-228	G01-60 G13-51 G03-40 S03-27 G04-5
15:40 - 16:00	Coffee Break and Industry Displays in Oakes Foyer	Coffee Break and Industry Displays in Oakes Foyer	Coffee Break and Industry Displays in Oakes Foyer
16:00 - 16:20	G01-135 G06-57 G03-23 G11-243 G04-140	G01-253 G13-52 G03-77 S03-16 G04-202	G01-253 G13-52 G03-77 S03-16 G04-202
16:20 - 16:40	G01-165 G06-232 G03-15 G11-42 G04-10	G01-8 G13-87 G03-133 S03-157 G04-107	G01-8 G13-87 G03-133 S03-157 G04-107
16:40 - 17:00	G01-251 G06-95 G03-162 G11-220 G04-86	G01-66 G13-169 G03-82 S03-144 G04-15	G01-66 G13-169 G03-82 S03-144 G04-15
17:00 - 17:20	G01-70 G06-167 G03-123 G09-235 G04-236	G01-252 G13-99 G03-128 S03-183 G01-73	G01-252 G13-99 G03-128 S03-183 G01-73
17:20 - 17:40	G01-71 G08-171 G03-106 G10-300 G04-68	Closing Ceremony (17:20 - 18:00)	
17:30 - 20:00	Niagara Tour & Winery Banquet		

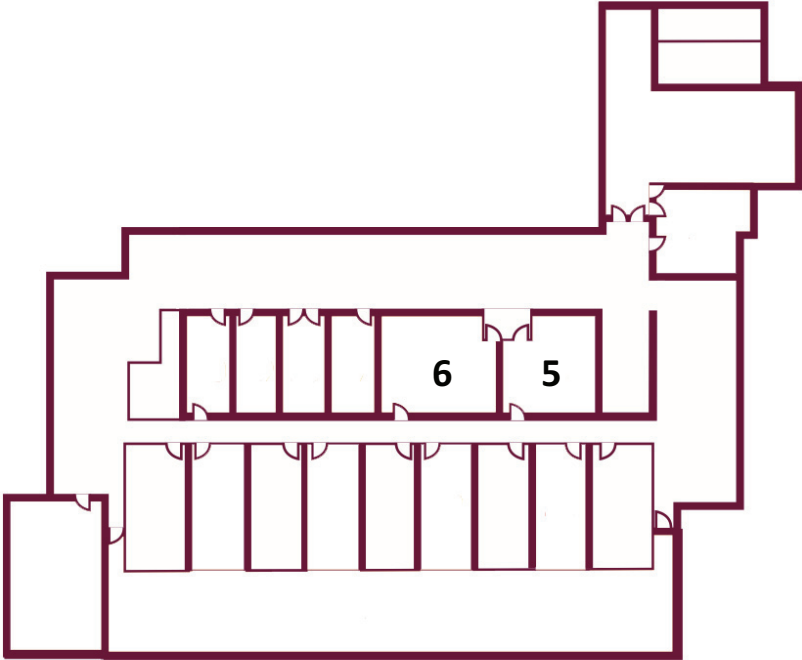
PPS Americas Conference 2012 Map

Venue: Marriott Gateway on the Falls



Mezzanine

- Room 1:** Oakes Foyer (Registration & Posters)
- Room 2:** Oakes North West
- Room 3:** Oakes North East
- Room 4:** Oakes South



Third Floor Level

- Room 5:** Ontario
- Room 6:** Niagara

Plenary Lectures

Speaker	Title	Date	Time	Room
Takeshi Kikutani	Elastomeric Fibers: Processing-structure-property relationship	Tuesday May 22	08:30 – 09:15	Oakes South
Charles Tucker	Modeling of process-induced microstructure in molded long-fiber composites		14:00 – 14:45	Oakes South
Mosto Bousmina	Graphene-based nanocomposites	Wednesday May 23	08:30 – 09:15	Oakes South
Masami Okamoto	Hollow spherical allophone nanoparticles in soil and their environmental applications		14:00 – 14:45	Oakes South
Jean-Francois Agassant	An overview of polymer processing instabilities	Thursday May 24	08:30 – 09:15	Oakes South
Christian Hopmann	Integrative plastics technology: academic and industry co-operation for mutual benefit		14:00 – 14:45	Oakes South

Keynote Lectures

Tuesday, May 22, 2012						
Paper No.	Authors	Symp.	Title	Time	Room	
G01-258K	S. Saeidlou, <u>M.A. Huneault</u> , H. Li, C.B. Park	G01	Stereocomplex Formation Between Enantiomeric Poly(lactic acid)	09:20 – 09:50	Oakes South	
G04-277K	<u>M.N. Bureau</u> , L. Khoun, D. Maillard, V.L. Bravo, M. McLeod	G04	High-Throughput Composite Manufacturing Processes for Automotive Applications	09:20 – 09:50	Oakes NW	
G04-271K	<u>H. Nazockdast</u>	G04	Microstructure processing relationship in polymer nanocomposites	09:50 – 10:20	Oakes NW	
G03-275K	S. Bose, C. Ozdilek, G. Vleminckx, M. Wubbenhorst, J. Vermant, A. Abdala, C. Macosko, <u>P. Moldenaers</u>	G03	Inducing Electrical Conductivity via Phase Separation in Blends Containing CNT's or Graphene	09:20 – 09:50	Oakes NE	
G02-24K	<u>C. Bellehumeur</u>	G02	New Insights into the Design of Ethylene Copolymers used in Rotomolding Applications	09:20 – 09:50	Ontario	
G09-101K	P.D. Coates, B.R. Whiteside, M.T. Martyn, Q. Yang, Y. Chen, Q. Wang, H. Xia	G09	Micromoulding Structuring of Polymers, Polymer Nanocomposites and Blends	09:20 – 09:50	Niagara	
G01-250K	<u>A. Mohanty</u>	G01	Plastics and Sustainability: Challenges and Opportunities for Bioplastics and Biobased Materials in the Emerging Bioeconomy	10:30 – 11:00	Oakes South	
G13-273K	<u>G.W.M. Peters</u> , T.B. van Erp	G13	A New Rheological Classification of Flow-induced Crystallization of Polymers	10:30 – 11:00	Oakes NW	
G11-194K	M. Yamanoi, S. Jamali, S. Khani, A. Boromand, J. Wagner, <u>João Maia</u>	G11	Mesoscale Simulations of Complex Fluids by Dissipative Particle Dynamics	10:30 – 11:00	Oakes NE	

G07-262K	<u>M. Cakmak</u> , B. Yalcin, S. Batra	G07	Field Assisted Self Assembly (FASA) of Functional Films Using a Novel Continuous Roll to Roll Process	10:30 – 11:00	Ontario
G10-269K	M. R. Loos, J. Yang, D.L. Feke, <u>J. Manas-Zloczower</u>	G10	Carbon Nanotube Reinforced Composites for Wind Turbine Blades	10:30 – 11:00	Niagara
G07-257K	<u>A.K. Ghosh</u>	G07	Film Processability and Morphology of Blends and Nanocomposites based on Poly(lactic acid)	14:50 – 15:20	Oakes South
G06-31K	<u>S.V. Canevarolo</u> , L.S. Zborowski	G06	Real Time Monitoring the Droplets Deformation During the Extrusion of Polymer Mixtures via In-line Turbidity	14:50 – 15:20	Oakes NW
G03-147K	<u>J. Sundararaj</u>	G03	Drop Breakup Mechanisms of Viscoelastic Polymer Blends	14:50 – 15:20	Oakes NE
G11-264K	A.S. Fard, H.E.H. Meijer, <u>P.D. Anderson</u>	G11	Tools to Simulate Distribution Mixing in Twin-Screw Extruders	14:50 – 15:20	Ontario
G04-259K	<u>P. Bates</u>	G04	Polymer Welding - The Forgotten Polymer Process	14:50 – 15:20	Niagara

Wednesday, May 23, 2012					
Paper No.	Authors	Symp.	Title	Time	Room
G09-65K	<u>M.R. Kamal</u> , S. Derdouri, R. El-Otmani	G09	Morphology Development in Micro Injection Molded Poly(oxymethylene) (POM) Parts	09:20 – 09:50	Oakes South
G09-36K	R. Pantani, F. De Santis, V. Speranza, <u>G. Titomanlio</u>	G09	Modeling Flow-induced Crystallization of iPP in Processing Conditions	09:20 – 09:50	Oakes NW

G07-279K	<u>A. Ajji</u>		G07	Functionality in Films Through Nanostructures and/or Nanoparticles Incorporation	09:20 – 09:50	Oakes NE
G03-246K	<u>S.C. Kim</u> , D.H. Kim, Y.H. Kwon		G03	Polymer Blend and IPN Membranes for Direct Methanol Fuel Cell	09:20 – 09:50	Ontario
S03-266K	<u>J. Perdikoulis</u>		S01	Co-Extrusion Problem Solving with Simulation	09:20 – 09:50	Niagara
G04-5K	<u>D. Rodrigue</u> , K. Bourai		G04	Heat Transfer in Natural Fibre Thermoplastic Composites	10:30 – 11:00	Oakes South
G05-74K	S.A.E. Boyer, F. Fournier, C. Gandin, <u>J. Haudin</u>		G05	Model Experiments for High-pressure Crystallization	10:30 – 11:00	Oakes NW
G04-276K	A. Ghanbari, <u>M.C. Heuzey</u> , P.J. Carreau, M.T. Ton-That		G04	Morphology and Properties of PET/Organoclay Nanocomposites	10:30 – 11:00	Oakes NE
G08-263K	M. Stumpf, F. Wolff-Fabris, <u>V. Altstädt</u>		G08	Tailoring Properties of Polymer Foams	10:30 – 11:00	Ontario
G10-146K	A. Motaghi, <u>A. Hrymak</u> , G.H. Motlagh		G10	Synergism Effect of Carbon-fiber and Carbon black on Electrical Conductivity and Percolation of Hybrid Polymeric Composites	10:30 – 11:00	Niagara
G10-239K	<u>H. Ito</u> , A. Haryu, S. Takahagi, T. Takayama, T. Kyotani		G10	Nano-rod Structure Fabrication in Precision Polymer Processing	14:50 – 15:20	Oakes South
G06-10K	<u>D.M. Kalyon</u> , A. Ergun-Butros, S. Ozkan, C. Eriskan		G06	Extrusion based Processes for Fabrication of Bioresorbable Scaffolds for Tissue Engineering Applications	14:50 – 15:20	Oakes NE
G08-168K	P. Gutmann, <u>R. Hingmann</u> , D. Longo-Schedel, H. Ruckdäschel, M. Sommer		G08	The Potential of Polymer Foams as Advanced Materials	14:50 – 15:20	Ontario
G09-149K	<u>L. Turng</u> , J. Lee, X. Sun, E. Yu		G09	Recent Developments in Microcellular Injection Molding	14:50 – 15:20	Niagara

Thursday, May 24, 2012

Paper No.	Authors	Symp.	Title	Time	Room
G09-16K	S. Ko, <u>J.M. Castro</u>	G09	In Mold Coating: The Environmentally Friendly Alternative to Painting for Injection Molded Parts	09:20 – 09:50	Oakes South
G06-145K	<u>C. Martin</u>	G06	Comparing Twin Screw Extrusion Systems to Process Bioplastics	09:20 – 09:50	Oakes NW
G12-231K	<u>C. Tzoganakis</u> , M. Meysami, S. Zhu	G12	Rubber Devulcanization through Extrusion with Supercritical Carbon Dioxide	09:20 – 09:50	Oakes NE
G08-93K	<u>M. Ohshima</u> , R.W. Sharudin, H. Shikuma	G08	Preparation of Polypropylene Nanocellular Foams and their Properties	09:20 – 09:50	Ontario
S01-268K	<u>J. Vlachopoulos</u>	S03	Progress in Flat Die Design for Extrusion and Coating	09:20 – 09:50	Niagara
G10-240K	<u>P. Pötschke</u> , S. Pegel, G. Kasaliwal, R. Socher, B. Krause, T. Villmow	G10	Influencing Factors on Dispersion of CNTs in Polymer Melts	10:30 – 11:00	Oakes South
G10-193K	F.R. Passador, D.R. Travain, E.H. Backes, A.R. Filho, <u>L.A. Pessan</u>	G10	Mechanical, Thermal and Gas Barrier Properties of HDPE/LLDPE Blend-based Nanocomposites	10:30 – 11:00	Oakes NW
G10-49K	A. Vasileiou, K. Petrie, O. Osazuwa, A. Docoslis, <u>M. Kontopoulou</u>	G10	Efficient Dispersion of MWCNTs in Polyolefins using Non-covalent Functionalizing Interaction	10:30 – 11:00	Oakes NE
G08-270K	L. Li, H. Shi, S. Shi, <u>Q. Wang</u>	G08	Preparation of Poly(Vinyl Alcohol) Foam Through Thermal Processing using Water as a Blowing Agent	10:30 – 11:00	Ontario
G09-241K	<u>F. Gao</u> , Y. Yang, K. Yao	G09	An Intelligent Control System for Injection Molding Process	10:30 – 11:00	Niagara
G13-272K	R. Komuro, S.K. Sukumaran, M. Sugimoto, <u>K. Koyama</u>	G13	Polymer/Polymer Interfacial Slip in Immiscible Melts	14:50 – 15:20	Oakes South
G13-12K	<u>S.G. Hatzikiriakos</u>	G13	Wall Slip of Molten Polymers	14:50 – 15:20	Oakes NW
G03-249K	<u>P.J. Carreau</u>	G03	Coalescence in Thermoplastic Polymer Blends	14:50 – 15:20	Oakes NE

G10-274K	W. Sambaer, M. Zatloukal, D. Kimmer, <u>P. Saha</u>	G10	Filtration Through Nanofiber Nonwovens	14:50 – 15:20	Ontario
G13-260K	J.M. Barbas, A.V. Machado, <u>J.A. Covas</u>	G13	On-line Monitoring Along the Extruder of the Dispersion of Clay Nanocomposites	14:50 – 15:20	Niagara

TECHNICAL PROGRAM OF PPS AMERICAS CONFERENCE 2012

Monday, May 21, 2012	
13:00 - 20:00	Registration in Oakes Foyer
18:00 - 21:00	Welcome reception in Oakes Foyer

Tuesday, May 22, 2012					
07:00 - 08:15	Coffee/Tea (Breakfast on own as it is included with Hotel accommodations of participating Hotels)				
08:15 - 08:30	Opening Ceremony in Oakes South Ballroom				
Room: Oakes South Ballroom Chair: Ica Manas-Zloczower					
Plenary Lecture: <i>Elastomeric Fibers: Processing-structure-property relationship</i> Takeshi Kikutani, Tokyo Institute of Technology, Japan					
Room	Oakes South T11	Oakes NW T21	Oakes NE T31	Ontario T41	Niagara T51
Session	G01 – Biodegradable & Sustainable Polymers	G04 - Composites	G03 – Blends, Properties and Structure	G02 – Blow-molding, Rotomolding, & Thermoforming	G09 – Injection Molding
Symposia	Amar Mohanty	Phil Bates	UT Sundararaj	Giuseppe Titomanlio	Tom Turng
Chair	G01-258K Stereocomplex Formation Between Enantiomeric Poly(lactic acid) S. Saeidlou, M.A. Huneault, H. Li, C.B. Park	G04-277K High-Throughput Composite Manufacturing Processes for Automotive Applications M.N. Bureau, L. Khoun, D. Maillard, V.L. Bravo, M. McLeod	G03-275K Inducing Electrical Conductivity via Phase Separation in Blends Containing CNTs or Graphene S. Bose, C. Ozdilek, G. Vleminckx, M. Wubbenhorst, J. Vermant, A. Abdala, C. Macosko, P. Moldenaers	G02-24K New Insights into the Design of Ethylene Copolymers used in Rotomolding Applications C. Bellehumeur	G09-101K Micromoulding Structuring of Polymers, Polymer Nanocomposites and Blends P.D. Coates, B.R. Whiteside, M.T. Martyn, Q. Yang, Y. Chen, Q. Wang, H. Xia
09:20 - 09:50					

09:50 - 10:10	G01-175 Composites of PLLA/Stereocomplex (PLDLA) Fiber Made by Hydrostatic-Pressure-Extrusion-Molding K. Kato, N. Tomita, M. Hojo, S. Hyon	G04-271K Microstructure processing relationship in polymer nanocomposites H. Nazockdast	G03-53 Electrical Properties of Polystyrene/Polyaniline Composites Prepared by Emulsion Polymerization H. Ghasemi, U. Sundararaj	G02-136 Simulation of Reactive Rotational Molding by Smoothed Particle Hydrodynamics Method S. Rivière, S. Khelladi, S. Farzaneh, A. Tcharkhtchi	G09-219 Microcellular Injection Molding of Polylactide Composites for Thermal Insulation Applications A. Ameli, D. Jahani, A. Abbaszadegan, C.B. Park
10:10 - 10:30	Coffee Break and Industry Displays in Oakes Foyer				
Room	Oakes South	Oakes NW	Oakes NE	Ontario	Niagara
Session	T12	T22	T32	T42	T52
Symposia	G01 – Biodegradable & Sustainable Polymers Michel Huneault	G05 - Crystallization Jean-Marc Haudin	G13 - Rheology Jose Covas	G07 – Films & Fibers Takeshi Kikutani	G10 – Nanomaterials & Nanocomposites Masami Okamoto
Chair	G01-250K Plastics and Sustainability: Challenges and Opportunities for Bioplastics and Biobased Materials in the Emerging Bioeconomy A. Mohanty	G13-273K A New Rheological Classification of Flow-induced Crystallization of Polymers G.W.M. Peters, T.B. van Erp	G11-194K Mesoscale Simulations of Complex Fluids by Dissipative Particle Dynamics M. Yamanoi, S. Jamali, S. Khani, A. Boromand, J. Wagner, João Maia	G07-262K Field Assisted Self Assembly (FASA) of Functional Films Using a Novel Continuous Roll to Roll Process M. Cakmak, B. Yalcin, S. Batra	G10-269K Carbon Nanotube Reinforced Composites for Wind Turbine Blades M. R. Loos, J. Yang, D.L. Feke, I. Manas-Zloczower
10:30 - 11:00	G01-19 Mechanical and Biodegradative Properties of Polypropylene/Poly(3-hydroxybutyrate) Blends R.K. Sadi, R.S. Kurusu, G.J.M. Fechine, N.R. Demarquette	G05-119 Investigation of Morphology and Crystal Growth Behaviour of Nanoclay-Containing Biodegradable Polymer Blend Thin Films Using Atomic Force Microscopy T. Malwela, S.S. Ray	G13-11 Thermorheological Properties of PCL/PLA Blends N. Noroozi, L.L. Schafer, S.G. Hatzikiriakos	G07-245 Seal Properties of Films of Biodegradable Blends based on Poly(lactic Acid (PLA) and an Aliphatic Polyester R.Y. Tabasi, Z. Najjarzadeh, A. Aiji	G10-225 Variation of Mixing Speed During Melt Mixing of PCL-MWNT Nanocomposites: Influence of Nanotube Length and Dispersion and Resulting Rheological and Electrical Properties P. Pötschke, T. Villmow, B. Krause
11:00 - 11:20					

11:20 - 11:40	G01-205 Behavior of Jute and Cotton Fibres on the Properties of Poly Lactic Acid (PLA) Based Composites M. Talimi, H.Y. Sarvestani, G.M. Rizvi	G05-189 Crystallization Behavior of High Density Polyethylene Nucleated by Carbon Nanotubes Studied by Ultra Fast DSC F. Tao, D. Auhl, L. Bonnaud, P. Dubois, C. Bailly	G13-12 Rheology and Mechanical Properties of Wood Fibre-Polypropylene- Composites using By-Pass Extrusion Rheometer H. Nguyen, R. Putz	G07-59 Characteristics of Neat and Used Microporous LDPE Hollow Fiber Membranes for CO2 Capture in Membrane Contactors S.M. Sedghi, D. Rodrigue, J. Brisson, M. Iliuta	G10-22 Small and Wide Angle X-ray Scattering on Poly(butylene terephthalate) + Functionalized Carbon Nanotubes Hybrids G. Broza, L.A.S.A. Prado, Z. Roslaniec, S.S. Funari, K. Schulte
11:40 - 12:00	G01-6 Wood Fiber Biocomposites Based on Polylactic Acid and its Blends with Thermoplastic Starch M. Mihai, N. Legros, A. Alemdar	G05-56 UHMWPE: The Ultimate Long Chains for Modifying Flow-induced Crystallization Y. Kawashima, R. Zhang, L. Rong, Y. Nozue, N. Numao, T. Nagamatsu, Y. Shinohara, Y. Amemiya, J.A. Kornfield	G13-117 The Melt Linear and Nonlinear Viscoelastic Behavior of Polymer Ternary Blends with Emphasize on Core-shell Morphology Z. Javidi, H. Nazockdast	G07-96 Analysis on Stress-optical Behavior of Carbon Dioxide based Aliphatic Polycarbonates H. Menju, W. Takarada, T. Kikutani	G10-127 A Study on the Electrical Conduction and Piezoresistance of Polyethylene-Carbon Nanotube and Graphene Nanoplatelet Composites R. Rizvi, E. Biddiss, H.E. Naguib
12:00 - 12:20	G01-62 Morphology of Poly(lactic acid)/Low Density Polyethylene Blends E. Jalali Dil, B. D. Favis	G05-192 Crystallization of i-PP in Mid Term Shearing G. Eder, P. Hierzenberger	G04-72 Effect of Organoclay and Various Types of EPDMs on Morphology Development and Rheological Properties of Dynamically Vulcanized Nanocomposites based on PP/EPDM/Organoclay H. Nazockdast	G07-98 An Investigation into the Cooling of Blown Film G.A. Campbell	G10-33 Thermal Conductivity of Aligned Injection Molded Multi-Walled Carbon Nanotube Filled Polystyrene Nanocomposites M. Mahmoodi, G. Santos, M. Arjmand, U. Sundararaj, S.S. Park
12:20 - 14:00	Lunch and Industry Displays in Oakes Foyer				
14:00 - 14:45	Room: Oakes South Ballroom Chair: Musa Kamal				
Room Session	Oakes South T13	Oakes NW T23	Oakes NE T33	Ontario T43	Niagara T53
Symposia	G01 – Biodegradable & Sustainable Polymers	G06 – Mixing & Extrusion	G03 – Blends, Properties and Structure	G11 – Numerical Computation & G10 Nanocomposites	G04 - Composites
Chair	Denis Rodrigue	Dilhan Kalyon	Abdellah Aji	Paula Moldenaers	Marie-Claude Heuzey

14:50 - 15:20	G07-257K Film Processability and Morphology of Blends and Nanocomposites based on Poly(lactic acid) A.K. Ghosh	G06-31K Real Time Monitoring the Droplets Deformation During the Extrusion of Polymer Mixtures via Inline Turbidity S.V. Canevarolo, L.S. Zborowski	G03-147K Drop Breakup Mechanisms of Viscoelastic Polymer Blends U. Sundararaj	G11-264K Tools to Simulate Distribution Mixing in Twin-Screw Extruders A.S. Fard, H.E.H. Meijer, P.D. Anderson	G04-259K Polymer Welding - The Forgotten Polymer Process P. Bates
15:20 - 15:40	G01-197 Effect of Gas Pressure on Crystallization Behavior of Polylactide M. Nofar, C.B. Park	G06-234 Visualization of Starved Flow in an Intermeshing Region of a Twin-Screw Extruder T. Kato, T. Tanaka, Y. Arao	G03-19 Biodegradable Polylactide/Poly[[butylene succinate)-co-adipate] Blends: The Effect of Nano-clay Content on the Morphology and Properties V. Ojjoa, R. Sadiku, S.S. Ray	G11-14 NIR Imaging for Real-time Quality Control of Hemp Plastic Composites M. Ghaseemzadeh-Barvarz, A.R. Kakroodi, C. Duchesne, D. Rodrigue	G10-280 Selecting Dispersing Agents for Thermoset/Carbon Nanotube Masterbatches M. R. Loos, J. Yang, D.L. Feke, I. Manas-Zloczower
Coffee Break and Industry Displays in Oakes Foyer					
15:40 - 16:00					
16:00 - 16:20	G01-135 Preparation of Co-electrospun Core-shell Nanofiber Structures from PEO and Chitosan M. Pakravan, M. Heuzey, A. Ajji	G06-57 Effect of Screw Rotation Speed on the Properties of Polycarbonate (PC)/Vapor Grown Carbon Fiber (VGCF) Composites Prepared by Melt Compounding S. Tanoue, H. Okuzono, J. Nithikarnjanatharn, H. Uematsu, Y. Iemoto	G03-23 Phase Morphology and Compatibilization Mechanism in Ternary Blend of PET, Polyolefin Rubber, and Ionomer H. Ohishi	G11-243 Linear Oscillatory Dynamics of Flexoelectric Membranes Embedded in Viscoelastic Media D. Milad, E. E. Herrera-Valencia, A.D. Rey	G04-140 Application of the DSC, TG and DMTA Analysis for the Study on the Influence of a Structure of Components of Polyurethane-Rubber Composites Obtained from Waste Materials on the Composite Properties W.W. Sułkowski, G. Bartecka, A. Sułkowska, S. Maślanka, M. Moczyński
16:20 - 16:40	G01-165 Preparation of Plasticized Chitosan and Chitosan/Polylactide Blends Using an Internal Mixer Q. Meng, M. Heuzey, P.J. Carreau	G06-232 Experimental and Predicted Evolution of Short Fiber Orientation in the Entrance, Lubrication and Advancing Front Region of a Center-Gated Disk G.M. Vélez-García, S. Mazahir, P. Wapperom, D.G. Baird	G03-15 HeCos for the Automotive Industry: Basic Correlations between EPR-Design and Shrinkage G. Potter, G. Grestenberger, C. Grein, C. Kock	G11-42 Automatic Simulation for the Prediction of a Realistic Blown Film Contour M. Janas, M. Bussmann, L. Mikelsons, L. Fehlbarg, J. Wortberg	G04-10 Mechanical and Morphological Properties of Thermoplastic Elastomer Composites from Recycled Polypropylene / Waste Rubber Crumb and Wood Flour A.R. Kakroodi, D. Rodrigue

16:40 - 17:00	<p>G01-251 Polymer Nanofibre Processing Through Electrospinning: Their Structure, Properties and Applications M. Misra, V. Poursorkhabi, M. Schreiber, N. Khan, L. Rea, S. Vivekanandhan, S.K. Bhatia, A.K. Mohanty</p>	<p>G06-95 History of the Development of a Single Screw Theory that Fits Experimental Data for Screw Pump Output and Energy Dissipation G.A. Campbell, M.A. Spalding</p>	<p>G03-162 Linseed Oil as Active Ingredient in Active Packaging G.M.A. María, S.M.J. Camilo, M.P.J. Alberto</p>	<p>G11-220 Computational Approach to Microbial Depolymerization Processes of Xenobiotic Polymers M. Watanabe, F. Kawai</p>	<p>G04-86 Fabrication of Thermoplastic Polymer-Matrix Composites for Thermally Conductive Heat Sink Insulating Pads S.N. Leung, O.M. Khan, H.E. Naguib, F. Dawson, V. Adinkrah</p>
17:00 - 17:20	<p>G01-70 Preparation of Chitin and Chitosan Aerogels from Squid Pens P. Ratanaajaroen, S. Ochi, M. Ohshima</p>	<p>G06-167 Design of Extrusion Pipe Die G. Dogossy, S. Szalai, E. Sági</p>	<p>G03-123 The Effect of Polyhydroxybutyrate-co-valerate (PHBV) Content on Physical, Mechanical, Morphological Properties and Foaming Behavior of Polylactic Acid (PLA) Q. Guan, R. Rizvi, H.E. Naguib</p>	<p>G09-235 Study on the Effect of Screw Geometries on Fiber Length and Dispersion of GFRTF in Injection Molding M. Nomoto, T. Tanaka, A. Yoshihiko, A. Inoue</p>	<p>G04-236 A Comparative Study of Electromagnetic Interference (EMI) Shielding Properties of Injection Molded and Compression Molded Multi-walled Carbon Nanotube/Polystyrene Composites M. Arjmand, M. Mahmoodi, S. Park, U. Sundararaj</p>
17:20 - 17:40	<p>G01-71 Surface Treated Cellulose as a Reinforcing Agent in Polylactic Acid (PLA) based Biopolymer for Sustainable Flexible Packaging Applications T. Mukherjee, N. Kao, Rahul K. Gupta, N. Quazi, S.N. Bhattacharya</p>	<p>G08-171 High Density Extrusion Foaming of Polypropylene with Nano-Silica M. Xu, C.B. Park</p>	<p>G03-106 The Effects of Addition of Organofunctionalized Nanosilica and Extrusion Operating Conditions on the Phase Morphology of Immiscible PP/EVA Blends S. de Azevedo, J.R. Venturin, L.B. Canto</p>	<p>G10-300 Piezoresistive Behavior and Time Dependency in Nanocomposites based on PP/EPDM Thermoplastic Vulcanizates (TPVs) and Expanded Graphite (EG) /Organoclay Hybrid A.N. Esfahani, A. A. Katbab</p>	<p>G04-68 Influence of Dispersion on Dielectric Properties of Multi-walled Carbon Nanotube / Polystyrene Composites in the X-band M. Arjmand, G.A. Geives, U. Sundararaj</p>

Coffee/Tea (Breakfast on own as it is included with Hotel accommodations of participating Hotels)

		Room: Oakes South Ballroom Chair: Pierre Carreau			
		Plenary Lecture: <i>Graphene-based nanocomposites</i>			
		Mosto Bousmina, Institute of Nanomaterials and Nanotechnology, Morocco			
Room	Oakes South W11	Oakes NW W21	Oakes NE W31	Ontario W41	Niagara W51
Session					
Symposia	G09 – Injection Molding	G02 – Blow-molding, Rotomolding, & Thermoforming & G09 – Injection Molding	G07 – Films & Fibers	G03 – Blends, Properties and Structure	S01 – Industrial Session
Chair	Jose Castro	Celine Bellehumeur	Miko Cakmak	Roland Hingmann	Charlie Martin
09:20 - 09:50	G09-65K Morphology Development in Micro Injection Molded Poly(oxymethylene) (POM) parts M.R. Kamal, S. Derdouri, R. El-Otmani	G09-36K Modeling Flow-induced Crystallization of iPP in Processing Conditions R. Pantani, F. De Santis, V. Speranza, G. Titomanlio	G07-279K Functionality in Films Through Nanostructures and/or Nanoparticles Incorporation A. Ajji	G03-246K Polymer Blend and IPN Membranes for Direct Methanol Fuel Cell S.C. Kim, D.H. Kim, Y.H. Kwon	S03-266K Co-Extrusion Problem Solving with Simulation J. Perdikoulas
09:50 - 10:10	G09-102 Process Windows Considering Two Conflicting Criteria: The Injection Molding Case A. Rodríguez -Yáñez, M. Cabrera-Ríos, J.M. Castro, M. G. Villarreal-Marroquín	G02-137 Fabrication Process Monitoring of Optical Grating by Ultrasound C. Cheng, S. Yang, C. Wu, K. Wu	G07-130 Crystalline Transformation During Uniaxially Stretched Nylon/Clay Nanocomposite Film F. Sadeghi, A. Ajji	G03-148 Proton Exchange Membrane Fuel Cell (PEMFC) Bipolar Plate Based on PVDF/PET Composites: Crystallization, Structure and Electrical Resistivity J. Song, F. Mighri, A. Ajji	S01-46 Composite Properties of a Plastic-Metal Hybrid H. Heim, T. Geminger
10:10 - 10:30	Coffee Break and Industry Displays in Oakes Foyer				
Room	Oakes South W12	Oakes NW W22	Oakes NE W32	Ontario W42	Niagara W52
Session					
Symposia	G01 – Biodegradable & Sustainable Polymers & G04 - Composites	G05 - Crystallization	G10 – Nanomaterials & Nanocomposites	G08 - Foams	G10 – Nanomaterials & Nanocomposites
Chair	Martin Bureau	Gerrit W.M. Peters	Mosto Bousmina	Masahiro Ohshima	Luiz Antonio Pessan

10:30 - 11:00	<p>G04-5K Heat Transfer in Natural Fibre Thermoplastic Composites D. Rodrigue, K. Bourai</p>	<p>G05-74K Model Experiments for High-pressure Crystallization S.A.E. Boyer, F. Fournier, C. Gandin, J. Haudin</p>	<p>G04-276K Morphology and Properties of PET/Organoclay Nanocomposites A. Ghanbari, M.C. Heuzey, P.J. Carreau, M.T. Ton-That</p>	<p>G08-263K Tailoring Properties of Polymer Foams M. Stumpf, F. Wolff-Fabris, V. Altstädt</p>	<p>G10-146K Synergism Effect of Carbon-fiber and Carbon black on Electrical Conductivity and Percolation of Hybrid Polymeric Composites A. Motaghi, A. Hrymak, G.H. Motlagh</p>
11:00 - 11:20	<p>G01-28 Fabrication of Poly(lactide based Biodegradable Thermoset Scaffolds for Tissue Engineering Applications R. Sakai, B. John, M. Okamoto, J.V. Seppälä, J. Vaithilingam, H. Hussein, R. Goodridge</p>	<p>G05-39 Shear-Induced Crystallization in Polypropylene/Talc Nanocomposites: Kinetics and Crystalline Orientation R. Fulchiron, B. Fiorentino, J.D. Rumeau, V. Bounor-Legaré, J. Majesté</p>	<p>G10-121 3D-Characterization of Clay Particles Dispersion in Polymer Nanocomposites S.S. Ray, T. Malwela</p>	<p>G08-185 Visualization Analysis of Foam Structure Development Process along Weld-line Zone behind Obstacle Pin T. Yamada, H. Yokoi</p>	<p>G10-164 Correlation between Electrical, Rheological and Morphological Properties of Polypropylene/ TiO2 Composites A. Zohrevand, A. Ajji, F. Mighri, E. David</p>
11:20 - 11:40	<p>G01-89 Processability and Structure-Property Relationship in Poly(lactic acid)/Poly(ϵ-caprolactone) Blends and Foams for Biomedical Application J. Goswami, N. Bhatnagar, S. Mohanty, A. K. Ghosh</p>	<p>G05-120 Crystallization Behavior of Poly(L-lactide)s with Different Branched Structures S. Nouri, C. Dubois, P.G. Lafleur</p>	<p>G10-255 The Effect of Nanoclay Dispersion Level on the Morphology Evolution and Thermo Mechanical Characteristics of TPV Nanocomposites based on PP/EPDM Prepared by Reactive Extrusion A. Mirzadeh, P.G. Lafleur, M.R. Kamal, C. Dubois</p>	<p>G08-179 Development of Thin Thermoplastic Foam Structures for Sound Absorption D. Jahani, R.K.M. Chu, S. Ghaffari, P.U. Jung, C.B. Park, H.E. Naguib</p>	<p>G10-26 Effect of Mixing Conditions on the Mechanical Properties of Organoclay/Fluoroelastomer Nanocomposites M. Khajehpour, G.A. Gelves, R. Li, O. Salazar, U. Sundararaj</p>
11:40 - 12:00	<p>G01-4 Properties of Chloroalga Reinforced Polyolefin Compounds S. Laske, M. Piontek, G. Rieb, C. Holzer</p>	<p>G05-17 Influence of the Relative Gamma-phase Content on Mechanical and Optical Properties of Ethylene-propylene Random Copolymers M. Sandholzer, M. Obadal, S. K. Kaliappan, F. Ruemer</p>	<p>G10-3 Effect of Type and Degree of Layered Silicates on Mechanical Properties and Burning Behavior of Recycled ABS M. Piontek, A. Witschnigg, S. Laske, C. Holzer</p>	<p>G08-188 Study on a Modified Steam Chest Molding Process for EPP Bead Foam Molded Products N. Hossieny, A. Ameli, C.B. Park</p>	<p>G10-8 Effect of Macromolecular Structure on Nanofiller Dispersion and Electrical Properties of Copper Nanowires Polyethylene Nanocomposites X. Luo, G. A. Gelves, J. Luo, U. Sundararaj</p>

12:00 - 12:20	G01-7 Localisation of Nanofillers in Blends of Thermoplastic Starch/Polycaprolactone A. Taghizadeh, B.D. Favis	G03-35 Correlation between glass transition and lithium ion conduction in a PMMA/ionic liquid blend systems P. Chen	G10-76 Electromagnetic Wave Absorbing Nanocomposites Based on Foamed PU/Silicone Rubber/Nanographite: The Role of Interfacial Compatibilization A. R. Shafieizadegan-Esfahani, A. A. Katbab	G08-92 Fabrication and Characterization of Bio-based Composite Foams of PLA and PHA for Acoustic Application S.G. Mosanenzadeh, H.E. Naguib, C.B. Park, N. Atalla	G10-61 Polymer Blend Nanocomposites of PC/ABS/MWCNT: Electrical Conductivity and EMI Shielding G.A. Gelves, M. Arjmand, P. Samavati, M. Al-Saleh, U. Sundararaj
12:20 - 14:00	Lunch and Industry Displays in Oakes Foyer				
14:00 - 14:45	Room: Oakes South Ballroom Chair: John Vlachopoulos				
	Plenary Lecture: <i>Hollow spherical allophone nanoparticles in soil and their environmental applications</i> Masami Okamoto, Toyota Technological Institute, Japan				
Room Session	Oakes South W13	Oakes NW W23	Oakes NE W33	Ontario W43	Niagara W53
Symposia	G10 – Nanomaterials & Nanocomposites Petra Pötschke	S01 – Industrial Session John Perdikoulas	G06 – Mixing & Extrusion Jean-Francois Agassant	G08 - Foams Volker Altstaedt	G09 – Injection Molding Charles Tucker
Chair	G10-239K Nano-rod Structure Fabrication in Precision Polymer Processing H. Ito, A. Haryu, S. Takahagi, T. Takayama, T. Kyotani	S01-6 Effects of Cocatalysts in Ziegler Natta PE Polymerization H. Trischler, M. Ruff, C. Paulik, T. Höchfurtner	G06-10K Extrusion based Processes for Fabrication of Bioresorbable Scaffolds for Tissue Engineering Applications D.M. Kalyon, A. Ergun-Butros, S. Ozkan, C. Erisken	G08-168K The Potential of Polymer Foams as Advanced Materials P. Gutmann, R. Hingmann, D. Longo-Schedel, H. Ruckdäschel, M. Sommer	G09-149K Recent Developments in Microcellular Injection Molding L. Turng, J. Lee, X. Sun, E. Yu
14:50 - 15:20	G10-227 Crystallization Behaviour of Elastomer Toughened Semicrystalline Polymer Nanocomposites P. Jain, R. Sharma, H. Joshi	S01-75 Thermal Processing of G-PVC with Glycerol Plasticized Starches C.A. Correa, C.R. de Santi, A. Leclerc, M. Sain	G06-163 Poly(ethylene terephthalate) Nanocomposites Prepared by Water-Assisted Extrusion and Solid-State Polymerization M. Dini, T. Mousavand, P.J. Carreau, M.R. Kamal, M. Ton-That	G08-207 The Effect of Exfoliation on the Foamability of HDPE-Nanoclay Composites Blown with CO2 A. Wong, S.F.L. Wijmands, T. Kuboki, C.B. Park	G09-228 Mechanical Property and Shrinkage Calculation of Microcellular Injection Molded Parts X. Jin, S. Han
15:20 - 15:40	Coffee Break and Industry Displays in Oakes Foyer				
15:40 - 16:00					

16:00 - 17:40	Poster Session in Oakes Foyer
17:30 - 20:00	<p>Niagara Tour & Winery Banquet</p> <ul style="list-style-type: none"> Two buses of 50 people each will pick up the first 100 people at 5:15 p.m. in the parking lot at the side entrance by the pool. The other bus(es) will pick up the next group at 6:15 p.m. at the same location.

Thursday, May 24, 2012	
07:00 - 08:20	Coffee/Tea (Breakfast on own as it is included with Hotel accommodations of participating Hotels)
08:20 - 08:30	Poster Competition Award Ceremony (Oakes South)
08:30 - 09:15	Room: Oakes South Ballroom Chair: Andrew Hrymak Plenary Lecture: <i>An overview of polymer processing instabilities</i> Jean-Francois Agassant, Ecole des Mines de Paris, France
Room	Oakes South R11
Session	Oakes NW R21
Symposia	G09 – Injection Molding
Chair	Furong Gao
09:20 - 09:50	G09-16K In Mold Coating: The Environmentally Friendly Alternative to Painting for Injection Molded Parts S. Ko, J.M. Castro
	G12 – Reactive Processing
	Savvas Hatzikiariakos
	G12-231K Rubber Devulcanization through Extrusion with Supercritical Carbon Dioxide C. Tzoganakis, M. Meysami, S. Zhu
	G08-93K Preparation of Polypropylene Nanocellular Foams and their Properties M. Ohshima, R.W. Sharudin, H. Shikuma
	G08 - Foams
	Christian Hopmann
	Oakes NE R31
	G03 – Polymer Coatings & Nanocoatings
	Anup K. Ghosh
	Ontario R41
	Niagara R51
	S01-268K Progress in Flat Die Design for Extrusion and Coating J. Vlachopoulos

09:50 - 10:10	G09-17 A Multiple Criteria Simulation Optimization Methodology Applied to Polymer Processing M.G. Villarreal-Marroquín, M. Cabrera-Ríos, J. M. Castro	G06-88 Constructional Efficiency of the Extrusion Process with Granulating Polyethylene J.W. Sikora, B. Samujlo	G12-198 Synthesis and Characterization of Poly(butylene terephthalate) in Presence of Antimony-based and Titanium-based Catalysts A. Keshavarzian, M. Rafizadeh, F. Afshar-Taromi	G08-21 From Micro to Nanocellular Polymeric Materials P. Javier, R. M. Angel, D. Michel	S01-158 Thermoforming Concepts for Polypropylene Resins C.J.A. Neves, A.P. de Azeredo, M. Farah
10:10 - 10:30	Coffee Break and Industry Displays in Oakes Foyer				
Room Session	Oakes South R12	Oakes NW R22	Oakes NE R32	Ontario R42	Niagara R52
Symposia	G10 – Nanomaterials & Nanocomposites	G10 – Nanomaterials & Nanocomposites	G12 – Reactive Processing & G10 – Nanomaterials & Nanocomposites	G08 - Foams	G09 – Injection Molding
Chair	Phil Coates	Petr Saha	Costas Tzoganakis	Kiyohito Koyama	Hiroshi Ito
10:30 - 11:00	G10-240K Influencing Factors on Dispersion of CNTs in Polymer Melts P. Pötschke, S. Pegel, G. Kasaliwal, R. Socher, B. Krause, T. Villmow	G10-193K Mechanical, Thermal and Gas Barrier Properties of HDPE/LLDPE Blend-based Nanocomposites F.R. Passador, D.R. Travain, E.H. Backes, A.R. Filho, L.A. Pessan	G10-49K Efficient Dispersion of MWCNTs in Polyolefins using Non-covalent Functionalizing Interactions A. Vasileiou, K. Petrie, O. Osazuwa, A. Docoslis, M. Kontopoulou	G08-270K Preparation of Poly(Vinyl Alcohol) Foam Through Thermal Processing using Water as a Blowing Agent L. Li, H. Shi, S. Shi, Q. Wang	G09-241K An Intelligent Control System for Injection Molding Process F. Gao, Y. Yang, K. Yao
11:00 - 11:20	G10-45 Selective Localisation of Carbon Black Fillers in Polypropylene/Polycaprolactone Blends J. Plattier, L. Benyahia, M. Dorget, F. Niepceron, J. Tassin	G10-43 Preparation of Polypropylene/Synthetic Talc Nanocomposites - Characterization of the Nucleating Effect B. Fiorentino, R. Fulchiron, J.D. Rumeau, V. Bounor-Legaré, J. Majesté	G12-181 Maleic Anhydride and Carbonyl Functionalization of Polypropylene with Suppressed Molecular Weight Reduction via Solid-State Shear Pulverization J.M. Diop, J.M. Torkelson	G08-201 Foaming of Poly(ethylene-co-octene) Elastomer with Presence of Surfactant Additives R.K.M. Chu, Y. Guo, J.H. Zong, N.Q. Zhou, C.B. Park	G09-281 Effect of Processing Parameters of Foam Injection Molding on the Weld-line Surface Quality P.U.Y. Jung, A. Ameli, C.B. Park

11:20 - 11:40	G10-64 Tailored Electrical Properties of Polyphenylene Sulfide Filled with hBN-Graphene Hybrid Fillers for Electronic Components and Packaging Applications M.O. Khan, S.N. Leung, H.E. Naguib, F. Dawson, V. Adinkrah	G10-2 PA12/PP/PP-g-MA/AIO(OH) Nanocomposite: Morphology, Rheology and Tensile Properties E.S. Ogunniran, R. Sadiku, S.S. Ray, N. Luruli	G12-204 Influence of Nanoclay during Graftization of Maleic Anhydride onto Polypropylene in Melt State P.A.R. Muñoz, S.V. Canevarolo, S.H.P. Bettini	G08-226 Crystallization Behavior and Foaming Ability of Elastomeric Block Copolymer: Poly(ether-block-amide) PEBAX Thermoplastic Elastomers M.R. Barzegari, N.J. Hossieny, H. Wang, C.B. Park	G09-11 Influence of Heat Stabilizers on Injection Molded Parts Using Electrically Conductive Compounds J. Dörner, J. Wortberg
11:40 - 12:00	G10-18 Development and Analysis of Multifunctional Nanopapers Prepared by a Layer-by-layer Spray Process E.D. Cabrera, O. Xilian, J.M. Castro, L.J. Lee	G10-34 Influence of Processing Conditions and Surface Treatment of Mechanical Properties of Blown Films of PA6/Halloysite Nanocomposites J. Marini, R.E.S. Bretas	G10-63 Curing Behaviour and Mechanical Properties of Fluorinated-Nanoclay/Fluoroelastomer Nanocomposites G.A. Gelves, S. Lakshminarayanan, R. Li, O. Salazar, U. Sundararaj	G08-156 Visualization of PLA Crystallization in Extrusion Process and its Effect on the Foaming Behavior of PLA A. Tabatabaei, M.R. Barzegari, M. Keshtkar, M. Nofar, C. B. Park	G09-38 Weight Reduction and Shrinkage Decline due to Microcellular Foaming Process S. Cho, S.W. Cha, J. Ahn
12:00 - 12:20	G01-247 Polylactide-Polyhydroxybutyrate-Nanoclay Melt Blends T.W. Woods, W.J. Blau, K. O' Connor, R.P. Babu	G10-97 Microstructure Development and Mechanical Properties of Chlorinated Polyethylene/Clay Nanocomposites E.P. Soheila, M. Milad, H. Nazockdast	G10-30 Preparation of Expanded Graphite Nanosheet/Carbon Black/EVA Nanocomposite for EMI Shielding C. Huang, C. Chang, C. Tsai	G08-32 Investigating the Effect of Temperature and Pressure on Surface Tension of Mesoporous Silica- Polypropylene Composites K. Sarikhani, C.B. Park, P. Chen	G09-211 A Novel Diffraction Type Splitter Applied on 3D Autostereoscopic Display Manufactured by Plastic Microinjection Molding C. Lu, S. Tseng, A.J. Giacomin
12:20 - 14:00	Lunch and Industry Displays in Oakes Foyer				
14:00 - 14:45	Room: Oakes South Ballroom Chair: Chul Park				
Plenary Lecture: <i>Integrative plastics technology: academic and industry co-operation for mutual benefit</i> Christian Hopmann, IKV, Germany					
Room Session	Oakes South R13	Oakes NW R23	Oakes NE R33	Ontario R43	Niagara R53
Symposia	G01 – Biodegradable & Sustainable Polymers	G13 - Rheology	G03 – Blends, Properties and Structure	S03 – Polymer Coatings & Nanocoatings	G04 - Composites
Chair	Qi Wang	Marianna Kontopoulou	Joao Maia	Patcharee Larpuriyakul	Hossein Nazockdast

14:50 - 15:20	G13-272K Polymer/Polymer Interfacial Slip in Immiscible Melts R. Komuro, S.K. Sukumaran, M. Sugimoto, K. Koyama	G13-12K Wall Slip of Molten Polymers S.G. Hatzikiriakos	G03-249K Coalescence in Thermoplastic Polymer Blends P.J. Carreau	G10-274K Filtration Through Nanofiber Nonwovens W. Sambaer, M. Zatloukal, D. Kimmer, P. Saha	G13-260K On-line Monitoring Along the Extruder of the Dispersion of Clay Nanocomposites J.M. Barbas, A.V. Machado, J.A. Covas
15:20 - 15:40	G01-60 Interfacial Tension of PLA in Supercritical Carbon Dioxide S.H. Mahmood, C.B. Park	G13-51 Rheological Behaviour of Coagent Modified Polypropylene Y. Zhang, M. Kontopoulou, S.G. Hatzikiriakos, C.B. Park	G03-40 Effect of Molecular Weight and Pellet Shape on the External Coefficient of Friction of Different Polypropylene Grades K. Liu, G. Zitzenbacher, C. Kneidinger, W. Stadlbauer, B. Edlinger, G. Schaffler	S03-27 Synthesis of Polyaniiline/Carbon Nanotubes (CNTs) Core-shell Nanostructures and Conductive Polystyrene Nanocomposites using in-situ Polymerization A. Sarvi, U. Sundararaj	G04-5 Influence of Particle Characteristics and Processing on Material Behaviour of a PMMA-Colloid-Compound V. Sauer, H.P. Heim
15:40 - 16:00	Coffee Break and Industry Displays in Oakes Foyer				
16:00 - 16:20	G01-253 Reactive Extrusion of Polyhydroxybutyrate-co-valerate (PHBV) and Polybutylene Succinate (PBS) Blend P. Praphulla, A. Mohanty, M. Misra	G13-52 Rheological Behaviour of a Linear Polylactide in Presence of Physical Blowing Agent M. Keshtkar, V. Shaayegan, L.H. Mark, C.B. Park, P.J. Carreau	G03-77 The Influence of the Atmosphere on the Properties of Radiation Induced Crosslinking and Degradation Based on PFA Films H.A. Zen, C.P. Souza, A.B. Lugão	S03-16 Corrosion Behavior of Epoxy based Lignosulfonate Doped Polyaniiline-montmorillonite Nanocomposite Coatings on AA 2024 Alloy G. Gupta, A.S. Khanna, N. Birbilis	G04-202 Review of Short Glass Fibre Orientation Prediction Models for Injection Moulding F. Caton-Rose, P. Hine, B. Parveen
16:20 - 16:40	G01-8 Morphology and Mechanical Properties of Blends of Short-chain-length and Medium-chain-length Poly-3-hydroxyalkanoates M. Nerkar, J. Ramsay, B. Ramsay, M. Kontopoulou	G13-87 Rheology and Structure - Property Relationship of ABS-Clay Nanocomposites P. Singh, A.K. Ghosh	G03-133 Frictional Behavior of Bioplastics at Screw Surfaces under Processing Conditions C. Kneidinger, K. Liu, G. Zitzenbacher, K.B. Steinbrecher	S03-157 Nanostructures Hybrid Nanoisocyanate Polyurethane Coatings O. Figovalov, L. Shapovalov, A. Leykin, D. Beilin	G04-107 Coupled Effect of Microvoids and High Fiber Content on the Failure Strength of Composite Laminates J.P. Anderson, M.C. Altan

16:40 - 17:00	<p style="text-align: center;">G01-66</p> <p style="text-align: center;">High Melt Strength PLA/PBSA Blends: Effect of Chain Extension Reaction</p> <p style="text-align: center;">H. Eslami, M. Kamal</p>	<p style="text-align: center;">G13-169</p> <p style="text-align: center;">The Rheology of Water-in-Crude Oil Emulsions Containing a Non-ionic Surfactant</p> <p style="text-align: center;">M.B. Sadeghi, V. Taghikhani, C. Ghotbi, A. Ramazani</p>	<p style="text-align: center;">G03-82</p> <p style="text-align: center;">The Effect Feeding Order on Microstructure and Rheological Properties of Poly(butylene terephthalate)/Epoxy/Clay Hybrid Systems</p> <p style="text-align: center;">M. M. Salehi, G.R. Pircheraghi, B. Ranjbar, H. Nazockdast</p>	<p style="text-align: center;">S03-144</p> <p style="text-align: center;">Ageing of Polymer-based Electrochromic Devices</p> <p style="text-align: center;">H.P. Heim, A. Desjean</p>	<p style="text-align: center;">G04-15</p> <p style="text-align: center;">Natural Fiber Composites based on Postconsumer Polyolefins and Wood Fiber Residues: Effect of Impact Modification by Waste Ground Tire Rubber</p> <p style="text-align: center;">Y. Kazemi, A. Cloutier, D. Rodrigue</p>
17:00 - 17:20	<p style="text-align: center;">G01-252</p> <p style="text-align: center;">Effect of Melt Processing on the Performance New Soy Based Biodegradable Plastic</p> <p style="text-align: center;">M.M. Reddy, M. Misra, A.K. Mohanty</p>	<p style="text-align: center;">G13-99</p> <p style="text-align: center;">Development of Extruded Profiles from High Density Polyethylene and Wood Flour Composites</p> <p style="text-align: center;">C.R. de Santi, C.A. Correa, J. Vlachopoulos, E. Hage Jr.</p>	<p style="text-align: center;">G03-128</p> <p style="text-align: center;">Morphology and Rheology of the PP/PA6/diamine Modified Nanoclay Blend Nanocomposite</p> <p style="text-align: center;">P. Gholamreza, S.M. Mahdi, H. Nazockdast, E.M.Z. Sadat</p>	<p style="text-align: center;">S03-183</p> <p style="text-align: center;">Tensile Properties of Water-based Acrylic Coatings Containing Oil filled Ethyl Cellulose Core-shell Microcapsules</p> <p style="text-align: center;">S.M. Mirabedini, R.R. Farnood, N. Yan, L. Gauquelin, I. Dutil</p>	<p style="text-align: center;">G01-73</p> <p style="text-align: center;">Use Gelatin on Starch Based Products as a Reinforcing Agent to Change their Properties</p> <p style="text-align: center;">B.C. Kwon, J. Ahn, S.W. Cha, H.K. Kim</p>
17:20 - 18:00	Closing Ceremony in Oakes South Ballroom				

Program of the Poster Session

Wednesday, May 23, 2012: from 04:00 pm to 05:40 pm, Oakes Foyer

Poster ID	Title	Authors
G01-113	Effect of Loading Level and Particle Size on the Crystallization of Poly(3-Hydroxybutyrate)/Vegetal Fiber Composites	P.B. Cipriano, L.H. de Carvalho, E.L. Canedo
G03-47	Study of Thermal Ageing in Chloroprene Rubber Compounds Micro-Wave Irradiated	S.R. Scagliusi, E.C.L. Cardoso, S.G. Araujo, L. Liliane, D.F. Parra , A.B. Lugao
G04-9	Mixed Matrix Membranes (MMM) of Aminosilanes Grafted FAU/EMT Zeolite and Polyimide for CO ₂ /CH ₄ Separation	X.Y. Chen, O.G. Nik, S. Kaliaguine, D. Rodrigue
G05-200	Birefringence and Wide Angle X-ray Experiments on Polymer Crystallizing Melts Using a Flow Device	L. Vernieri, F. De Santis, R. Pantani, L. Balzano, G. Peters, G. Titomanlio
G06-203	The Effect of Additive Feed Ratio and Type of Internal Lubricant Additives on the Melt Flow Rate in a Twin Screw Extruder	A. Keshavarzian
G06-25	Studies of the Influence of the Granulate Length on the Effectiveness of Polymer Intake from the Extruder Hopper	J.W. Sikora
G07-115	Water Vapor Permeation of LLDPE/Bentonite Films: Influence of Compatibilizer Addition	E.M. Silva, M.G. Coutinho, R.B. Costa, E.L. Canedo, L.H. Carvalho
G07--13	Preparation of Novel Ultra-high Molecular Weight Polyethylene Nanocomposite Fibers	J. Yeh, C. Wang, T. Jiang, X. Deng, P. Hu, Y. Lai, L. Huang, C. Tsou
G07-248	Study of Heat Seal Property and Mechanism for PP Film Compounded Small Amount of PE-co-PP Components	K. Miyata, H. Sato, A. Nishioka, T. Koda

Poster ID	Title	Authors
G07-54	Influence of Processing Variables in the Finishing of Carbon Fibers	A.C. Coria, A.A. Castillo, O.S. Martinez, J.C.T. Picasso, A.V. Gonzalez, P.J. Herrera-Franco
G07-282	Structural And Chemical Modification Of Polyacrylonitrile (PAN) Nanofiber Surface By Atmosphere Corona Plasma	<i>Soheil Pilehvar, Maryam Rashedi¹, Poria Kaveh, S.Hamideh Mortazavi, Mahmood Ghoranneviss</i>
G08-254	Effect of Processing Parameters on the Morphology of Polypropylene Microcellular Foams	N. Chuapon, P. Buahom, A. Duereh, S. Areerat
G08-50	Effective Polypropylene and Low Density Polyethylene Foamability Predicted by Melt Strength Evaluations	E.C.L. Cardoso, S.R. Scagliusi, L.F.C.P. de Lima, N.R. Bueno, D.F. Parra, A.B. Lugão
G08--9	Processing and Characterization of Injection Molded Microcellular Flax Fibre-Polyethylene Composites	C. Tissandier, R. González-Núñez, D. Rodrigue
G10-114	Effect of Compatibilizer on Mechanical Properties of Propylene Homo and Copolymer / Organoclay Nanocomposites	T.S. Alves, R. Barbosa, C.C. Angrizani, L.H. de Carvalho, E.L. Canedo
G10-118	Theoretical and Experimental Study on Role of Multiwall Carbon Nanotubes (MWNTs) on Morphology and Rheological Behavior of PMMA/PS/PP Ternary Blends	A. Rostami, H. Nazockdast, M. Karimi
G10-13	Ultradrawing Properties of Novel Ultra-high Molecular Weight Polyethylene Composite Fibers Filled with Nanosilica Particles	J. Yeh, C. Wang, L. Huang, W. Wang, Y. Lai, T. Chiang, C. Hsu, C. Tsou, C. Huang, K. Chen
G10-182	A Study on the Rheology and Morphology of PA6/PP/MWCNTs Nanocomposites	A. Abbasi , H. Nazokdast, A. Javadi

Poster ID	Title	Authors
G10-44	Synthesis of PU/Expandable Graphite via In-situ Polymerization Method and Parametric Sensitivity Analysis by Means of Rheological Approach	S. Zekri-Ardehani
G13-14	Novel Slit Die for the Evaluation of the Effect of Flow Channel Surface on Polymer Melt Rheology	A. Giesbrecht, G. Zitzenbacher, G. Metzbauer, C. Kneidinger, D. Heim
G13-78	Flow Properties of Starch Based Feedstocks for Use in Powder Injection Molding of Ceramics Products	L.J.D. Amaral, R.C.D. Cruz, C.A. Correa
G13-94	Rheological Investigation on Potassium Humate/Poly Acryl Amide /Clay Hybrid Hydrogel.	S.M. Hosseiny, M. Mehranpour, A. Saeedi