

5th ICPC TECHNICAL PROGRAM SCHEDULE

September 22-24, 2014

The Westin Valencia, La Exposición Ballroom

Sunday		September 21, 2014
7:30 – 8:15	Registration (Main Entrance Hall)	
8:15 – 17:45	Short Course on Polyolefin Characterization Techniques. (La Exposición I room).	
17:30 – 19:30	Registration (La Exposición Ballroom Foyer)	
18:00 – 19:30	GPC Columns Colloquium. Moderator: Dr. Colin Li Pi Shan.	
19:30	Welcome Cocktail (Garden)	

Monday		September 22, 2014
7:15 - 8:30	Registration (La Exposición Ballroom Foyer)	
8:30 - 8:45	Opening Remarks	
Separation - Fractionation (I)		
8:45 - 9:30 <i>Keynote Speaker</i>	Benjamin Monrabal Polymer Char (Spain) Characterization of complex Ethylene-Propylene copolymers. A journey inside the analytical techniques.	
9:30 - 10:00	Jacques Tacx ¹ , B.A.H. van den Esschert ¹ , S.Kok ² ¹ SABIC Technology and Innovation Center (The Netherlands) ² DSM Resolve (The Netherlands) Molecular structure of linear low density polyethylene.	
10:00 - 10:30	Andreas Albrecht ¹ , Ljiljana Jeremic ¹ , Kumudini Jayaratne ² ¹ Borealis Polyolefine GmbH (Austria) ² Borealis Technology Ou (Finland) New approach in describing the chemical composition distribution in uni- and multimodal ZN-polyethylene.	
10:30 - 11:00	<i>Coffee Break</i>	
Separation - Fractionation (II)		
11:00 - 11:30	Rongjuan Cong , Willem deGroot The Dow Chemical Company (USA) The challenges and recent advances in polyolefins comonomer distribution analysis.	
11:30 - 12:00	Huang Honghong ¹ , Guo Meifang ¹ , Li Juan ¹ , Wallace W. Yau ² ¹ Beijing Research Institute of Chemical Industry, SINOPEC (China) ² Polyolefin Characterization Consultant (USA) Analysis of propylene-butene copolymer composition by GPC with online infrared detector.	

12:00 - 12:30	Thippahaya Pathaweeisariyakul ¹ , Kanyanut Narkchamnan ¹ , Wallace W. Yau ² , Boonyakeat Thitisuk ¹ ¹ SCG Chemicals Co., Ltd. (Thailand) ² Polyolefin Characterization Consultant (USA) Methods of long chain branching detection in PE by triple-detector GPC.
12:30 - 13:00	Sadiqali Cheruthazhekatt , Harald Pasch University of Stellenbosch (South Africa) Evaluation of solvent effects in solution crystallization fractionation of polyolefins.
13:00 - 14:00	<i>Lunch (Garden)</i>
Morphology	
14:00 - 14:30	Rufina G. Alamo , A. Mamun, X. Chen FAMU/FSU College of Engineering (USA) Melt topology of ethylene copolymers above the equilibrium melting temperature.
14:30 - 15:00	Virendrakumar Gupta Reliance Industries Limited (India) Development of morphological characteristics of polyolefin resin through catalyst design.
15:00 - 15:30	Katsuhisa Tokumitsu ¹ , Asuka Hayashi ¹ , Sakiko Fukunishi ² , Kazuhumi Kohno ² , Masami Okamoto ³ ¹ The University of Shiga Prefecture (Japan) ² Osaka Gas Chemicals, Co. LTD. (Japan) ³ Toyota Technological Institute (Japan) Effect of adding polysilane on heat fusion properties of PP.
15:30 - 16:00	Dario Romano ¹ , Efren Andablo-Reyes ¹ , Sara Ronca ¹ , Sanjay Rastogi ^{1,2} ¹ Loughborough University (United Kingdom) ² Teijin Aramid (The Netherlands) Effect of a co-catalyst modifier in the synthesis of ultra-high molecular weight polyethylene having a reduced number of entanglements.
16:00 - 16:30	<i>Coffee Break</i>

POSTER SESSION

16:30	Posters Introduction (1 min. / poster).
17:45	Posters Area Visit.
19:00	<i>Cocktail (Posters Area, La Exposición Ballroom).</i>

Tuesday		September 23, 2014
Properties - Structure		
8:30 - 9:00	Koh-hei Nitta , Chun-yao Li Kanazawa University (Japan) Characterization of tensile fracture of isotactic polypropylene solids.	
9:00 - 9:30	Anton Ginzburg , Tom Schoffelen, Andre Jansen, Martin Zuideveld SABIC (The Netherlands) High and medium throughput polyolefin characterization.	
9:30 - 10:00	Wonchalerm Rungswang , Watcharee Cheevasrirungruang, Phutsadee Saendee, Thipphaya Pathaweeisariyakul, Boonyakeat Thitisuk SCG Chemicals Co., Ltd. (Thailand) Role of molecular and crystal structures on tensile deformation of impact resistance polypropylene copolymer: segmental copolymer and crystal orientation.	
10:00 - 10:30	Lohith M N , George Kuriakose, Abdul Rehman Al-Hazmi SABIC (Saudi Arabia) Evaluation and quantification of grafting degree of maleic anhydride in polypropylene through rapid techniques.	
10:30 - 11:00	<i>Coffee Break</i>	
Separation - Fractionation (III)		
11:00 - 11:30	Harald Pasch ¹ , Sadiqali Cheruthazhekatt ¹ , Vincent Mathot ² , Tijs Pijpers ² ¹ University of Stellenbosch (South Africa) ² SciTe (the Netherlands) The LEGO approach in polyolefin analysis – linking molecular and thermal properties of IPC.	
11:30 - 12:00	Robert Brüll , Tibor Macko, Frank Malz Fraunhofer Institute for Structural Durability and System Reliability (LBF) (Germany) Multidimensional high temperature liquid chromatography.	
12:00 - 12:30	Ines Mingozzi , Fabio Testoni, Isabella Camurati Basell Poliolefine Italia S.r.l. (Italy) Advanced characterization of low molecular weight components in polyolefins.	
12:30 - 13:00	Tiny Frijns ¹ , Alberto Ortin ² , Jos Weusten ¹ , Artur Henke ¹ , Erik Geladé ¹ ¹ DSM Resolve (The Netherlands) ² Polymer Char (Spain) Studies on the application of filter-based IR detector for polyolefin characterization with HT-SEC.	
13:00 - 14:00	<i>Lunch (Garden)</i>	
Spectroscopy		
14:00 - 14:30	Alexandre Dazzi ¹ , Curt Marcott ² , William King ³ , Roshan Shetty ⁴ , Craig Prater ⁴ ¹ University of Paris-Sud (France) ² Light Light Solutions (USA) ³ University of Illinois (USA) ⁴ Anasys Instruments (USA)	

	Nanoscale infrared spectroscopy for polyolefins – from reverse engineering to monolayer research.
14:30 - 15:00	Amanda G. McDermott ¹ , Chad R. Snyder ¹ , Paul J. DesLauriers ² , Ronald L. Jones ¹ ¹ National Institute of Standards and Technology (USA) ² Chevron Phillips Chemical Company (USA) Quantifying tie-chain content in semicrystalline polyolefins with vapor-flow small-angle neutron scattering.
15:00 - 15:30	Matt Parkinson , Gerhard Hubner, Lisa-Maria Steiner, Elena Pomakhina Borealis Polyolefine GmbH (Austria) Automation of quantitative NMR spectroscopy of polyolefins in industry.
15:30 - 16:00	<i>Coffee Break</i>
Modeling	
16:00 - 16:30	Siripon Anantawaraskul Kasetsart University (Thailand) Understanding solution fractionation of polyolefin: what we have learn from modeling.
16:30 - 17:00	Josef Chmelar , Martin Kroupa, Juraj Kosek Institute of Chemical Technology Prague (Czech Republic) Softening and agglomeration of polyethylene particles at reactor conditions.
17:00 - 17:15	<i>Break</i>

VENDOR SESSION	
17:15 – 17:30	Polymer Char
17:30 – 17:45	Wyatt Technology
17:45 – 18:00	Polymer Standards Service
18:00 – 18:15	Tosoh Bioscience
18:15 – 18:30	Agilent Technologies
18:30 – 18:45	Malvern Instruments
19:00	<i>Visit to the City of the Arts and Sciences and Cocktail.</i> <i>(By bus or by walking through the old river bed).</i>

Wednesday		September 24, 2014
Rheology		
8:30 - 9:00	Seshagiri Kalyanasundaram , E. H. Qua, S. Senthilkumar, M. K. Yadav, H. Y. Molod Nipras- Tasnee Petrochemicals (Saudi Arabia) Polymerization development and structure-properties relationship of high density polyethylene (HDPE) for the pipe applications.	
9:00 - 9:30	Mercedes Fernández , Arrate Huegun, Maria Eugenia Muñoz, Anton Santamaria University of the Basque Country (UPV/EHU) (Spain) Effect of processing on the rheological properties of branched polypropylenes obtained by electron beam irradiation.	
9:30 - 10:00	Mikhail A. Matsko ¹ , Inna K Shundrina ² , Marina I Nikolaev ¹ , Ludmila G. Echevskaya ¹ , Kseniya I. Baskakova ³ , Vladimir A. Zakharov ¹ ¹ Boreskov Institute of Catalysis SB RAS (Russia) ² Vorozhtsov Instit. of Organic Chemistry, Russian Academy of Science (Russia) ³ Novosibirsk State University (Russia) Peculiarities of the composition heterogeneity of ethylene/1-hexene copolymers produced over supported catalysts of different composition.	
10:00 - 10:30	Tommi Borg ¹ , Esko J. Pääkkönen ² ¹ TomCoat Oy (Finland) ² Tampere University of Technology (Finland) Long chain branching and molecular weight distribution characterization by the new rheological model.	
10:30 - 11:00	<i>Coffee Break</i>	
Separation - Fractionation (IV)		
11:00 - 11:30	Almudena Fernández , Rafael A. García, Baudilio Coto, Inmaculada Suarez, M. Teresa Expósito Rey Juan Carlos University (Spain) Structure, molecular mobility and properties of polypropylene block copolymers.	
11:30 - 12:00	Nicolas Longieras PEAKEXPERT (France) One shot fractionation and quantitation of impact polypropylene formulation.	
12:00 - 12:30	Abdulaal Z. Al-Khazaal ¹ , João B. P. Soares ² ¹ University of Waterloo (Canada) ² University of Alberta (Canada) Polyolefin characterization using high-temperature thermal gradient interaction chromatography.	
12:30 - 13:00	Yue Yu , Pietro Melone, Roberta Cipullo, Vincenzo Busico University of Naples Federico II (Italy) GPC analysis of PE and PP: absolute calibration via quenched-flow polymerization methods in combination with high-temperature cryoprobe NMR measurements.	
13:00	Adjournment and Goodbye, Lunch (Garden)	