

Sunday, October 21 <sup>st</sup> , 2012	
17:00 - 19:30	Registration
19:30	Welcome Cocktail

Monday, October 22 <sup>nd</sup> , 2012	
7:00 - 8:00	Registration
8:00 - 8:10	Opening Remarks

**Spectroscopy - Properties** *Session Moderator: Minoru Terano*

8:10 - 8:50	<b><sup>13</sup>C NMR Characterization of Polyolefins: a New Boost in Technology, another Quantum Leap in Data Acquisition and Structure/Properties Understanding.</b> <i>Vincenzo Busico (Keynote Speaker)</i> Federico II University of Naples (Italy)
8:50 - 9:20	<b>Correlating Structure Property Relationships using Chemometric Methods.</b> <i>Paul DesLauriers (Invited Speaker)</i> Chevron Phillips Chemical Company (U.S.A.)
9:20 - 9:50	<b>Study on Microstructure and Property of Coal-based Propylene and Polypropylene.</b> <i>Faliang Luo (Invited Speaker)</i> Shenhua Ningxia Coal Industry Group (China)
9:50 - 10:15	<b>Polyolefin Characterization with High Temperature NMR Cryoprobe.</b> <i>Zhe Zhou</i> The Dow Chemical Company (U.S.A.)
10:15 - 10:35	Coffee Break

**Separation - Fractionation (I)** *Session Moderator: Colin Li Pi Shan*

10:35 - 11:05	<b>Multidimensional Analysis of the Complex Composition of Impact Polypropylene Copolymers: Combination of TREF, SEC-FTIR-HPer DSC, and High Temperature 2D-LC.</b> <i>Harald Pasch (Invited Speaker)</i> University of Stellenbosch (South Africa)
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11:05 - 11:30	<b>A "Systematic Approach" to TD-GPC Data Processing with Band Broadening Correction.</b> <i>Lonnie Hazlitt</i> The Dow Chemical Company (U.S.A.)
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11:30 - 11:55	<b>Evidences of Long-Chain Branching in Ziegler-Natta Polyethylene Homopolymers as studied via SEC-MALS and Rheology.</b> <i>Youlu Yu</i> Chevron Phillips Chemical Company (U.S.A.)
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11:55 - 12:20	<b>Characterization of Long Chain Branched Polymers by Comprehensive Two Dimensional Molecular Topology Fractionation X Size-Exclusion Chromatography.</b> <i>David M. Meunier</i> The Dow Chemical Company (U.S.A.)
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12:20 - 13:20	Lunch
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**Morphology - Properties (I)** *Session Moderator: João Soares*

13:20 - 13:50	<b>High Molecular Weight Tails and Branching in Polymer Melts: Enhanced Extension Hardening at Surprisingly Low Flow Rates.</b> <i>Daniel Read (Invited Speaker)</i> University of Leeds (United Kingdom)
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13:50 - 14:15	<b>Structural Studies on Processing-induced Orientation in Polyolefin Pipe Systems.</b> <i>Ralf Kleppinger</i> DSM Resolve (The Netherlands)
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14:15 - 14:40	<b>Describing Structure Development In Flow Induced Crystallization Using Extended Dilatometry.</b> <i>Martin Van Drongelen</i> Eindhoven University of Technology (The Netherlands)
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14:40 - 15:05	<b>Structure-Property Correlation of Olefin Block Copolymers.</b> <i>Guoming Liu</i> Chinese Academy of Sciences (China)
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15:05 - 15:30	Coffee Break
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**Separation (II)** *Session Moderator: Harald Pasch*

15:30 - 16:00	<b>Polypropylene Heterophasic Copolymer: Molecular Structure Analysis through Fractionation Techniques.</b> <i>Susana Liberman (Invited Speaker)</i> Universidade Rio Grande Do Sul, UFRGS (Brazil)
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16:00 - 16:25	<b>Characterization Comparison between Butene-1/Propylene and Ethylene/Propylene Copolymers.</b> <i>Meifang Guo</i> Sinopec Beijing Research Institute of Chemical Industry (China)
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16:25 - 16:50	<b>Multidimensional Fractionation Techniques for the Characterisation of HDPE Pipe Grades.</b> <i>Andreas Albrecht</i> Borealis Polyolefine GmbH (Austria)
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16:50 - 17:15	<b>Powerful On-line FTIR Detection in Polyolefin Fractionation.</b> <i>Zengrong Zhang</i> Nova Chemicals Corporation (Canada)
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17:15 - 20:00	Poster Session
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18:30	Poster Session Cocktail
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**Tuesday, October 23<sup>rd</sup>, 2012**

**Morphology (II)** *Session Moderator: Rufina Álamo*

8:00 - 8:30	<b>Advances in AFM-based Nanomechanical Measurements of Polyolefin Blends.</b> <i>Dalia Yablon (Invited Speaker)</i> ExxonMobil Research and Engineering (U.S.A.)
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8:30 - 8:55	<b>Imaging the Molecular Structure of Polyethylene Blends.</b> <i>Chad R. Snyder</i> National Institute of Standards and Technology, NIST (U.S.A.)
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8:55 - 9:20	<b>A Study on the Diffraction Intensity of Isotactic-Polypropylene.</b> <i>Xuanbo Liu</i> Sinopec Beijing Research Institute of Chemical Industry (China)
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9:20 - 9:45	<b>Model Long Chain Branch (LCB) Polyethylenes: A Detailed Study of Crystallization Behavior and Phase Structure with LCB Architecture.</b> <i>Madhavi Vadlamudi</i> ExxonMobil Research and Engineering (U.S.A.)
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9:45 - 10:10	Coffee Break
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Separation (III)		Session Moderator: Willem Degroot
10:10 - 10:40	<b>Determination of the Microstructure of Polyolefins using Thermal Gradient Interaction Chromatography and its Hyphenated Techniques.</b> <b>Rongjuan Cong</b> ( <i>Invited Speaker</i> ) The Dow Chemical Company (U.S.A.)	
10:40 - 11:10	<b>Multidimensional High Temperature Liquid Chromatography of Polyolefins: An Overview<sup>a</sup> and Making a New Technique Fit for Industrial Application<sup>b</sup>.</b> <b>Robert Brüll<sup>a</sup></b> ( <i>Invited Speaker</i> ), <b>Dibyanarjan Mekap<sup>b</sup></b> Fraunhofer Institute for Structural Durability and System Reliability (LBF) (Germany)	
11:10 - 11:35	<b>Advances in Thermal Gradient Interaction Chromatography and Crystallization Techniques for Composition Analysis in Polyolefins.</b> <b>Benjamin Monrabal</b> Polymer Char (Spain)	
11:35 - 12:00	<b>Effect of Solvent Type on HT-TGIC of Polyolefins made with Metallocene Catalysts.</b> <b>Abdulaziz A. Alghyamah</b> University of Waterloo (Canada)	
12:00 - 12:25	<b>Gradient Temperature HPLC of Polyolefins and their Copolymers.</b> <b>Peter Montag</b> Polymer Standards Service, PSS (Germany)	
12:25 - 13:20	Lunch	
Properties - Structure (I)		Session Moderator: Dujin Wang
13:20 - 13:50	<b>Scalability of Mesophase Separation on Macrophase Separation and Crystallization of I-Polypropylene / Olefin Block Copolymer Blends.</b> <b>Charles C. Han</b> ( <i>Invited Speaker</i> ) Chinese Academy of Sciences (China)	
13:50 - 14:15	<b>Effect of Thermal History on the Mechanical Properties of Three Polypropylene Impact Copolymers.</b> <b>Josef Jancar</b> University of Technology (Czech Republic)	
14:15 - 14:40	<b>Investigation on the Molecular Structure-Mechanical Properties Relations in Polypropylene / Poly(Ethylene-Co-Propylene) (PP/EPR) In-Reacto Alloys.</b> <b>Ying Zhao</b> Chinese Academy of Sciences (China)	

14:40 - 15:05	<b>Advanced Analysis of LDPE: Closing the Loop between Chemistry and Product Properties.</b> <b>Iakovos Vittorias</b> Basell Polyolefine GmbH - Lyondellbasell (Germany)	
15:05 - 15:30	Coffee Break	
Modeling- Rheology		Session Moderator: Paul DesLauriers
15:30 - 16:00	<b>Molecular Engineering of Process Rheology for Long Chain Branched Melts.</b> <b>Thomas McLeish</b> ( <i>Invited Speaker</i> ) Durham University (United Kingdom)	
16:00 - 16:25	<b>A Tool for Deconvoluting the Distribution of Molecular Weight and Chemical Composition of Blends of Ethylene/Octene Copolymers.</b> <b>Ryan J. DePuit</b> The Dow Chemical Company (U.S.A.)	
16:25 - 16:50	<b>Development of a Mathematical Model for Temperature Rising Elution Fractionation (TREF).</b> <b>Siripon Anantawaraskul</b> Kasetsart University (Thailand)	
16:50 - 17:10	Break	
17:10 - 18:30	<b>Vendor Session</b>	
18:30	<b>Vendor Session Cocktail</b>	

Wednesday, October 24 <sup>th</sup> , 2012		
Morphology (III)		Session Moderator: Charles Han
8:00 - 8:30	<b>Crystalline Properties of Late Generation Polyolefins.</b> <b>Rufina Álamo</b> ( <i>Invited Speaker</i> ) Florida A&M University - Florida State University (FAMU/FSU) College of Engineering (U.S.A.)	
8:30 - 8:55	<b>Structure Dependent Plasticity of Isotactic Polypropylene.</b> <b>Dario Cavallo</b> Eindhoven University of Technology (The Netherlands)	

8:55 - 9:20	<b>The Effect of In-Process Ethylene Incorporation on the Evolution of Particle Morphology and Molecular Characteristics of Commercial Heterophase Ethylene Propylene Copolymers (HEPCs).</b> <b>Albert Van Reenen</b> University of Stellenbosch (South Africa)	
9:20 - 9:45	<b>The Effect of Crystalline Phase Morphology on the Structure and Properties of Impact Polypropylene Copolymer.</b> <b>Ryan Luyt</b> University of The Free State (South Africa)	
9:45 - 10:10	Coffee Break	
Separation (IV)		Session Moderator: Robert Brüll
10:10 - 10:40	<b>Importance of Multi-Angle Light Scattering in Polyolefin Characterization.</b> <b>Stepan Podzimek</b> ( <i>Invited Speaker</i> ) SYNPO / Faculty of Chemical Technology, University of Pardubice (Czech Republic)	
10:40 - 11:05	<b>Application of High Temperature Chromatographic and Viscometric Techniques for the Characterization of Highly Isotactic Polypropylene Samples.</b> <b>Wei Sen Wong</b> Malvern, Inc. (USA)	
11:05 - 11:30	<b>Characterization of Chemical Composition across Molar Mass Distribution in Polyolefin Copolymers by GPC-IR using a Filter-based IR Detector.</b> <b>Alberto Ortin</b> Polymer Char (Spain)	
11:30 - 11:55	<b>Preparation of Homogeneous Poly(Ethylene-Co-<math>\alpha</math>-Olefin) and their Use as Standards for TREF, CRYSTAF and Interactive Liquid Chromatography.</b> <b>Olivier Boyron</b> Université de Lyon (France)	
11:55 - 12:20	<b>Prep TREF - HT-HPLC - HPer DSC: Linking Molecular Characteristics and Thermal Properties of Polyolefins.</b> <b>Sadiqali Cheruthazhekkatt</b> University of Stellenbosch (South Africa)	
12:20 - 12:30	Adjournment And Goodbye	
12:30	Lunch	