### 4th ICPC Technical Program


<table>
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<tr>
<th>Time</th>
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| 11:05 - 11:30 | A “Systematic Approach” to TD-GPC Data Processing with Band Broadening Correction. Lonnie Hazlitt  
The Dow Chemical Company (U.S.A.) |
| 11:30 - 11:55 | Evidences of Long-Chain Branching in Ziegler-Natta Polyethylene Homopolymers as studied via SEC-MALS and Rheology. Yoush Yu  
Chevron Phillips Chemical Company (U.S.A.) |
| 11:55 - 12:20 | Characterization of Long Chain Branched Polymers by Comprehensive Two Dimensional Molecular Topology Fractionation X Size-Exclusion Chromatography. David M. Meunier  
The Dow Chemical Company (U.S.A.) |
| 12:20 - 13:20 | Lunch |
University of Leeds (United Kingdom) |
DSM Resolve (The Netherlands) |
| 14:15 - 14:40 | Describing Structure Development In Flow Induced Crystallization Using Extended Dilatometry. Martin Van Drogeleen  
Eindhoven University of Technology (The Netherlands) |
| 14:40 - 15:05 | Structure-Property Correlation of Olefin Block Copolymers. Guoming Liu  
Chinese Academy of Sciences (China) |
| 15:05 - 15:30 | Coffee Break |
| 15:30 - 16:00 | Polypropylene Heterophasic Copolymer: Molecular Structure Analysis through Fractionation Techniques. Susana Liberman (Invited Speaker)  
Universidad Rio Grande Do Sul, UFRGS (Brazil) |
| 16:00 - 16:25 | Characterization Comparison between Butene-1/Propylene and Ethylene/Propylene Copolymers. Meifang Guo  
Sinopec Beijing Research Institute of Chemical Industry (China) |
| 16:25 - 16:50 | Multidimensional Fractionation Techniques for the Characterisation of HDPE Pipe Grades. Andreas Albrecht  
Borealis Polyolefine GmbH (Austria) |
| 16:50 - 17:15 | Powerful On-line FTIR Detection in Polyolefin Fractionation. Zengrong Zhang  
Nova Chemicals Corporation (Canada) |
| 17:15 – 20:00 | Poster Session |
| 18:30         | Poster Session Cocktail |

**Monday, October 22nd, 2012**

<table>
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| 8:10 - 8:50   | 13C NMR Characterization of Polyolefins: a New Boost in Technology, another Quantum Leap in Data Acquisition and Structure/Properties Understanding. Vincenzo Busico (Keynote Speaker)  
Federico II University of Naples (Italy) |
Chevron Phillips Chemical Company (U.S.A.) |
Shenhua Ningxia Coal Industry Group (China) |
| 9:50 - 10:15  | Polyolefin Characterization with High Temperature NMR Cryoprobe. Zhe Zhou  
The Dow Chemical Company (U.S.A.) |
| 10:15 - 10:35 | Coffee Break |
| 10:35 - 11:05 | Multidimensional Analysis of the Complex Composition of Impact Polypropylene Copolymers: Combination of TREF-SEC-FTIR-HPer DSC, and High Temperature 2D-LC. Harald Pasch (Invited Speaker)  
University of Stellenbosch (South Africa) |
| 13:00 - 13:50 | High Molecular Weight Tails and Branching in Polymer Melts: Enhanced Extension Hardening at Surprisingly Low Flow Rates. Daniel Read (Invited Speaker)  
University of Leeds (United Kingdom) |
DSM Resolve (The Netherlands) |
| 14:15 - 14:40 | Describing Structure Development In Flow Induced Crystallization Using Extended Dilatometry. Martin Van Drogeleen  
Eindhoven University of Technology (The Netherlands) |
| 14:40 - 15:05 | Structure-Property Correlation of Olefin Block Copolymers. Guoming Liu  
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| 15:30 - 16:00 | Polypropylene Heterophasic Copolymer: Molecular Structure Analysis through Fractionation Techniques. Susana Liberman (Invited Speaker)  
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**Tuesday, October 23rd, 2012**

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| 8:00 - 8:30   | Advances in AFM-based Nanomechanical Measurements of Polyolefin Blends. Dalia Yablon (Invited Speaker)  
ExxonMobil Research and Engineering (U.S.A.) |
| 8:30 - 8:55   | Imaging the Molecular Structure of Polyethylene Blends. Chad R. Snyder  
National Institute of Standards and Technology, NIST (U.S.A.) |
| 8:55 - 9:20   | A Study on the Diffraction Intensity of Isotactic-Polypropylene. Xuanbo Liu  
Sinopec Beijing Research Institute of Chemical Industry (China) |
ExxonMobil Research and Engineering (U.S.A.) |
4th International Conference on Polyolefin Characterization

Separation (III) Session Moderator: Willem Degroot


11:10 - 11:35 Advances in Thermal Gradient Interaction Chromatography and Crystallization Techniques for Composition Analysis in Polyolefins. Benjamin Monrabal Polymer Char (Spain)

11:35 - 12:00 Effect of Solvent Type on HT-TGIC of Polyolefins made with Metallocene Catalysts. Abdulaziz A. Alghyamah University of Waterloo (Canada)

12:00 - 12:25 Gradient Temperature HPLC of Polyolefins and their Copolymers. Peter Montag Polymer Standards Service, PSS (Germany)

12:25 - 13:20 Lunch

Properties - Structure (I) Session Moderator: Dujin Wang


13:50 - 14:15 Effect of Thermal History on the Mechanical Properties of Three Polypropylene Impact Copolymers. Josef Jancar University of Technology (Czech Republic)

14:15 - 14:40 Investigation on the Molecular Structure-Mechanical Properties Relations in Polypropylene / Poly(Ethylene-Co-Propylene) (PP/EPR) In-Reactor Alloys. Ying Zhao Chinese Academy of Sciences (China)

14:40 - 15:05 Advanced Analysis of LDPE: Closing the Loop between Chemistry and Product Properties. Iakovos Vittorias Basell Polyolefine GmbH - Lyondellbasell (Germany)

15:05 - 15:30 Coffee Break

Modeling - Rheology Session Moderator: Paul DesLauriers

15:30 - 16:00 Molecular Engineering of Process Rheology for Long Chain Branched Melts. Thomas McLeish (Invited Speaker) Durham University (United Kingdom)

16:00 - 16:25 A Tool for Deconvoluting the Distribution of Molecular Weight and Chemical Composition of Blends of Ethylene/Octene Copolymers. Ryan J. DePuit The Dow Chemical Company (U.S.A.)


16:50 - 17:10 Break

17:10 - 18:30 Vendor Session

18:30 Vendor Session Cocktail

Separation (IV) Session Moderator: Robert Brüll

10:10 - 10:40 Importance of Multi-Angle Light Scattering in Polyolefin Characterization. Stepan Podzimek (Invited Speaker) SYNPO / Faculty of Chemical Technology, University of Pardubice (Czech Republic)

10:40 - 11:05 Application of High Temperature Chromatographic and Viscometric Techniques for the Characterization of Highly Isotactic Polypropylene Samples. Wei Sen Wong Malvern, Inc. (USA)

11:05 - 12:30 Characterization of Chemical Composition across Molar Mass Distribution in Polyolefin Copolymers by GPC-IR using a Filter-based IR Detector. Alberto Ortin Polymer Char (Spain)

11:30 - 11:55 Preparation of Homogeneous Poly(Ethylene-Co-o-Olefin) and their Use as Standards for TREF, CRYSTAF and Interactive Liquid Chromatography. Olivier Boyron Universite de Lyon (France)


12:20 - 12:30 Adjournment And Goodbye

12:30 Lunch

Wednesday, October 24th, 2012

Morphology (III) Session Moderator: Charles Han

8:00 - 8:30 Crystalline Properties of Late Generation Polyolefins. Rufina Alamo (Invited Speaker) Florida A&M University - Florida State University (FAMU/FSU) College of Engineering (U.S.A.)

8:30 - 8:55 Structure Dependent Plasticity of Isotactic Polypropylene. Dario Cavallo Eindhoven University of Technology (The Netherlands)

8:55 - 9:20 The Effect of In-Process Ethylene Incorporation on the Evolution of Particle Morphology and Molecular Characteristics of Commercial Heterophasic Ethylene Propylene Copolymers (HEPCs). Albert Van Reenen University of Stellenbosch (South Africa)


9:45 - 10:10 Coffee Break

10:10 - 10:45 Molecular Properties - Structure (I)


13:50 - 14:15 Effect of Thermal History on the Mechanical Properties of Three Polypropylene Impact Copolymers. Josef Jancar University of Technology (Czech Republic)

14:15 - 14:40 Investigation on the Molecular Structure-Mechanical Properties Relations in Polypropylene / Poly(Ethylene-Co-Propylene) (PP/EPR) In-Reactor Alloys. Ying Zhao Chinese Academy of Sciences (China)