

Monday, October 22 nd , 2012, 17:15 - 20:00h	
1.	<p>Melting and Crystalline Properties of Isotactic poly(propylenes) with 3,1 Defects. Carolina Ruiz-Orta, Juan P. Fernandez-Blazquez, Rufina G. Alamo, Amelia M. Anderson, Geoffrey W. Coates ¹FAMU-FSU College of Engineering, USA ²Cornell University, USA</p>
2.	<p>A Comparison between CEF and HT-TGIC of Ziegler-Natta LLDPE resins. Abdulaziz A. Alghyamah^{1,2}, João B.P. Soares¹ ¹ University of Waterloo, Canada ² King Saud University, Saudi Arabia</p>
3.	<p>Mathematical Model of Dynamic Crystallization for Ethylene/1-Octene Copolymers made with Metallocene Catalysts. Nuttawat Chokputtjanawuttler¹, Siripon Anantawaraskul^{1,2,*}, João B. P. Soares³, Abdulaziz A. Alghyamah³ ¹ Department of Chemical Engineering, Faculty of Engineering, Kasetsart University, Thailand ² Center of Advanced Studies in Nanotechnology and its Applications in Chemical, Kasetsart University, Thailand ³ University of Waterloo, Canada</p>
4.	<p>Deconvolution of Molecular Weight Distribution and Chemical Composition Distribution of Ethylene/1-Olefin Copolymers made with Multiple-site-type Catalysts using Genetic Algorithm. Uthane Nanthapoolsu¹, Khomwat Saengkhamkhom^{1,2}, Siripon Anantawaraskul^{1,2,*} ¹ Department of Chemical Engineering, Faculty of Engineering, Kasetsart University, Thailand ² Center of Advanced Studies in Nanotechnology and its Applications in Chemical, Kasetsart University, Thailand</p>
5.	<p>Mathematical Model of Gradient Adsorption High Temperature Liquid Chromatography (HT-LC) for Ethylene/1-Octene Copolymers made with Metallocene Catalysts. Nantiya Inwong¹, Siripon Anantawaraskul^{1,2,*} ¹ Department of Chemical Engineering, Faculty of Engineering, Kasetsart University, Thailand ² Center of Advanced Studies in Nanotechnology and its Applications in Chemical, Kasetsart University, Thailand</p>
6.	<p>Chain Microstructures of Linear Olefin Block Copolymers: Theoretical Analysis and Monte Carlo Simulation. Sompob Buaparungsri¹, Siripon Anantawaraskul^{1,2,*} ¹ Department of Chemical Engineering, Faculty of Engineering, Kasetsart University, Thailand ² Center of Advanced Studies in Nanotechnology and its Applications in Chemical, Kasetsart University, Thailand</p>
7.	<p>Simulation of Temperature Rising Elution Fractionation (TREF) of Linear Olefin Block Copolymers (OBCs). Ekaphol Siriwongsam^{1,2}, Siripon Anantawaraskul^{1,2,*}, João B. P. Soares³ ¹ Department of Chemical Engineering, Faculty of Engineering, Kasetsart University, Thailand ² Center of Advanced Studies in Nanotechnology and its Applications in Chemical, Kasetsart University, Thailand ³ University of Waterloo, Canada</p>
8.	<p>Calibration of separation techniques for measurement of α-olefin content in polyethylene. Olivier Boyron¹, Christophe Boisson¹, Emilie Cossou¹, Tibor Macko², Loli Romero³, Alberto Ortin³ ¹Université de Lyon (France) ²Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany ³Polymer Char, Spain</p>
9.	<p>Repeatability, Reproducibility, and Baseline Stability of a Dual-Flow Differential Refractive Index Detector for Calculation of Molar Mass Averages in Size Exclusion Chromatography. Amandaa K. Brewer, Ilir Koliqi Tosoh Bioscience LLC, U.S.A.</p>
10.	<p>Chemical Composition Characterization of Ethylene/1-olefin Copolymers using Adsorption Liquid Chromatography and CRYSTAF. Rajesh Chitta¹, Robert Brüll¹, Christophe Boisson², Olivier Boyron², Tibor Macko¹ ¹ Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany ² Université de Lyon, France</p>
11.	<p>Comparison of Elution Profiles obtained with CRYSTAF, TREF and High-Temperature HPLC for Ethylene/1-Alkene Copolymers. T. Macko¹, R. Chitta, R. Brüll¹, Ch. Boisson², O. Boyron² ¹ Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany ² Université de Lyon, France</p>
12.	<p>Evaporative Light Scattering Detector and Calibration of its Response for Polyolefins. J.-H. Arndt¹, T. Macko^{1,2}, V. Busico^{2,3}, R. Brüll¹ ¹ Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany ² Dutch Polymer Institute (DPI), The Netherlands ³ Federico II University of Naples, Italy</p>
13.	<p>Imaging Techniques: Understanding the Ageing of Pipe Grade Polyethylene. R. Maria¹, T. Schuster¹, K. Rode¹, S. Damodaran¹, R. Brüll¹, Mirko Wenzel², Kurt Engelsing², Martin Bastian² ¹ Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany ² Süddeutsches Kunststoff-Zentrum (SKZ), Germany</p>
14.	<p>Three Dimensional Orientations by FTIR and Polarised Light Microscopy. T. Schuster, K. Rode, S. Damodaran, R. Brüll Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany</p>
15.	<p>Preparation and characterization of PE-g-Alt. Marco A. da Silva^{1,2}, Griselda B. Galland¹ ¹ Universidade Federal do Rio Grande do Sul, Brazil ² BRASKEM S.A., Brazil</p>
16.	<p>Shuttle Chemistry outside the Safe Environment of a Glove Box: The delicate Balance of Scavenging and Pasifying the Scavenger. Camille Descour^{1,*}, Timo Sciarone¹, Mauritz Kelchtermans², Ilia Korobkov³, Robbert Duchateau^{1,*} ¹ Eindhoven University of Technology, The Netherlands ² Exxon Mobil Chemical Europe, Belgium ³ University of Ottawa, Canada * Dutch Polymer Institute (DPI), The Netherlands</p>
17.	<p>Applications of the New Integrated IR5 MCT Detector in GPC/SEC with Improved Sensitivity and Stability for Polyolefin Analysis. Pilar del Hierro, Jesus Montesinos, Rubén TarIn, BenjamIn Monrabal Polymer Char, Spain</p>
18.	<p>Mechanical Properties of Polypropylene/Reduced Graphite Oxide Composites by In-situ Ziegler-Natta Polymerization. Yingjuan Huang, Jin-Yong Dong * Chinese Academy of Sciences, China</p>
19.	<p>Molecular Weight Scaling of the Spherulite Growth Rate in Isothermally Melt Crystallized Polyethylene Nanocomposites. J. Jancar, K. Fiore Brno University of Technology, Czech Republic</p>
20.	<p>Characterization of Ethylene / Tetrafluoroethylene Copolymer by means of Pyrolysis-GC/TOFMS Combined with Multivariate Data Analysis. Toshifumi Kakiuchi, Minami Kikuchi, Yoji Nakajima, Tsuguhide Isemura Asahi Glass Co. Ltd, Japan</p>
21.	<p>Moving from TCB to o-DCB Solvent in GPC/SEC using Infrared Detector. Esther Lopez, Alberto Ortin, Jesus Montesinos Polymer Char, Spain</p>

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| 22. | <p>Quantification of Antioxidants Additives in High-Density Polyethylene using FTIR Spectroscopy.
Betsy Martínez Rodríguez¹, Ignacio Penichet Recio¹, Tamara Rajmankina²</p> <p>¹ Applications Department. Investigación y Desarrollo C.A (INDESCA), Venezuela
² University of Zulia, Venezuela</p> | 35. | <p>High Stabilization Effects of Dendritic Polyester for Polypropylene Nanocomposites
Ikki Katada, Toshiaki Taniike and Minoru Terano*
Japan Advanced Inst. Of Science and Technology (JAIST), Japan</p> |
| 23. | <p>Effect of the Morphology on the Mechanical Properties of the Nanocomposites of PP/SiO₂.
Kelly Santos¹, Susana Liberman¹, Diego Bracho², Raúl Quijada², Raquel Mauler¹</p> <p>¹ Chemistry Institute – University Federal of Rio Grande do Sul, Brazil
² Departamento de Ingeniería Química y Biotecnología- Universidad de Chile, Chile</p> | 36. | <p>Processing Degradation Index (PDI) – A New Approach in Quantification of Processing Stability of Polypropylene.
Jiri Tochacek, Josef Jancar
Brno University of Technology, Czech Republic</p> |
| 24. | <p>Latest Development in HT-GPC/SEC Column Technology: Stability, Resolution and Noise Reduction.
John McConville¹, Peter Montag², Günter Reinhold², Thorsten Hofe²</p> <p>¹ PSS USA Inc., USA
² PSS GmbH, Germany</p> | 37. | <p>High Temperature Liquid Chromatography – Making This New Technique Fit for Industrial Application
D. Mekap¹, T. Macko¹, R. Brüll¹, R. Cong², A. W. deGroot², and W. Yau²</p> <p>¹ Fraunhofer Institute for Structural Durability and System Reliability (LBF), Germany
² The Dow Chemical Company, USA</p> |
| 25. | <p>Characterization of Branched Ethylene/α-Olefin/Diene Polyolefins.
João B.P. Soares, Saeid Mehdiabadi
University of Waterloo, Canada</p> | 38. | <p>HT Experimentation in Rotational Rheology for Polymer Melts Applications
Robert Freisinger
Anton Paar GmbH, Austria</p> |
| 26. | <p>The effect of Nucleation Agents on the Morphology Development of Poly(propylene) (Co)polymers.
Tamara Meijer-Vissers^{1,2}, Han Goossens¹</p> <p>¹ Eindhoven University of Technology, The Netherlands
² Dutch Polymer Institute (DPI), The Netherlands</p> | | |
| 27. | <p>Improvements in the Sample Preparation of Polyolefins to prevent Polymer Degradation prior to GPC/SEC and CEF analysis.
Benjamin Monrabal, Pilar del Hierro, Alfredo Roig
Polymer Char, Spain</p> | | |
| 28. | <p>Characterization of Polyolefin by Diffusion Ordered Spectroscopy (DOSY).
Tetsuya Morioka, Koushi Matsubara
Japan Polychem Corporation, Japan</p> | | |
| 29. | <p>Calibration of Filter-based IR Detector in HT-GPC-IR using Homogeneous Ethylene/α-olefin Copolymers: Influence of Comonomer type.
Alberto Ortín¹, Olivier Boyron²</p> <p>¹ Polymer Char, Spain
² Université de Lyon, France</p> | | |
| 30. | <p>Comparison of FT-IR and Modern Filter-based IR Detection coupled to HT-GPC for Short Chain Branching and MMD Determination of Polyolefins.
Carolina Ruiz-Orta¹, M^a Belén Mula Andrés¹, Alberto Ortín², Benjamín Monrabal²</p> <p>¹ Repsol, Spain
² Polymer Char, Spain</p> | | |
| 31. | <p>Elution Behavior of Branched Polyolefins in Size Exclusion Chromatography.
Stepan Podzimek
SYNPO / Faculty of Chemical Technology, University of Pardubice (Czech Republic)</p> | | |
| 32. | <p>Characterization Ziegler–Natta Catalyst on Spherical Magnesium Chloride for Propylene Polymerization.
Amir Rouhifefat¹, Saeed Pourmohdian²</p> <p>¹ Amirkabir University of Technology, Iran
² University of Stellenbosch, South Africa</p> | | |
| 33. | <p>Mathematical Modeling of Olefin Polymerization with Multiple-site-type Catalysts.
João B. P. Soares¹*, Al-Saleh, M.², Alghyamah A.¹, Duever T.A.¹</p> <p>¹ University of Waterloo, Canada
² Kuwait Institute for Scientific Research, Kuwait.</p> | | |
| 34. | <p>Design of inorganic network structure in polypropylene through Sol-gel Method with super-critical CO₂
Kengo Takeuchi, Toshiaki Taniike and Minoru Terano
Japan Advanced Inst. Of Science and Technology (JAIST), Japan</p> | | |