

Advances in Polyolefins 2007

SUNDAY, SEPTEMBER 23

3:00 p.m.	Registration
3:30 p.m.	James E. McGrath and Pal Arjunan Overview and Objectives of the Workshop
KEY NOTE ADDRESS SESSION Introduction: Pal Arjunan & Jim McGrath	
3:45 p.m.	Balaji Singh, CMR/Innovante Global Polyolefins Market Trends
4:15 p.m.	Kurt W Swogger, Dow Chemical Company, Freeport, TX Emerging Challenges/Opportunities in Polyolefins
4:45 p.m.	BREAK
INVITED LECTURE SESSION I Discussion Leader – Lloyd Robeson	
5:00 p.m.	Peter Hanik, Pretium Consulting Inc., Houston, TX Innovation Model as Applicable to Polyolefins Industry R/D
5:30 p.m.	Abbas Razavi, Total-Fina Petrochemical Research Center, Feluy, Belgium Single Site Catalyzed Polyolefins- Academic and Industrial Challenges
6.00 p.m.	WELCOME RECEPTION

MONDAY, SEPTEMBER 24

INVITED LECTURE SESSION II Discussion Leader – Jim McGrath	
8:30 a.m.	Tobin Marks, Northwestern University, Evanston, IL Novel Polyolefins and Polyolefin-Based Materials via Rational Homogeneous and Heterogeneous Catalyst Design
9:00 a.m.	Brian Goodall, Rohm-Haas Chemical Company, Spring House, PA Novel Catalysts for the Controlled Copolymerization of Olefins and Acrylates to Linear, High Molecular Weight, Random Copolymers
9:30 a.m.	Bob Waymouth, Stanford University, Stanford, CA Catalysts for Novel Styrene / Ethylene Copolymers
10:00 a.m.	BREAK
INVITED LECTURE SESSION III Discussion Leader – Pal Arjunan	
10:15 a.m.	Sarah Martin, Dow Chemical Company, Freeport, TX INFUSE™ Olefin Block Copolymers: From Molecular Design to Market Introduction
10:45 a.m.	Manfred Bochmann, University of East Anglia, Norwich, UK New Types Of Highly Unsaturated Isobutene Polymers Via Zinc-Based Initiators
11:15 a.m.	Armenag H. Dekmezian, Exxon Mobil Chemical Company, Baytown, TX Design of Propylene-based Olefin Block Copolymers
11:45 a.m.	LUNCH
INVITED LECTURE SESSION IV Discussion Leader – Eric Baer	
1:15 p.m.	Benjamin Monrabal, PolyChar, Paterna, Spain

	Microstructure Characterization of Polyolefins
1:45 p.m.	Donald. A Winesett, ExxonMobil Chemical Company, Baytown, TX Chemical Imaging Techniques For Polyolefin Blends
2:15 p.m.	Anne Hiltner, & Eric Baer, Case Western Reserve University, Canton, OH, and Steve Chum, Dow Chemical Company, Freeport, TX Properties and Solid State Structure of New Olefinic Block Copolymers
2:45 p.m.	BREAK
INVITED LECTURE SESSION V Discussion Leader – Abhi Patil, Exxon Mobil Corporate Research, Clinton, NJ	
3:00 p.m.	Walter Ramirez, Director – Innovante/CID-DESC, Toluca, Mexico High Throughput Tools/Capabilities to Polyolefins R/D
3:30p.m.	Jun-ichi Imuta, Mitsui Chemicals, Inc., Tokyo, Japan Growth of Functional Olefin Polymers by Single Site Catalysts
4:00 p.m.	Ralph Colby, Penn State Univ, Univ Park, PA Rheological Characterization of Novel PP Copolymers
4.30 p.m	Kazushi Mashima, Osaka Univ., Japan Half-metallocene Complexes of Group 4 and 5 Metals As Unique Catalyst Precursors for Olefin Polymerization
5:30 p.m.	RECEPTION AND POSTER SESSION, Sponsored by _____ Submit poster abstracts to Lesia Robertson, ACS Polymer Division, Virginia Tech, E-mail: lesiar@vt.edu

TUESDAY, SEPTEMBER 25

INVITED LECTURE SESSION VI Discussion Leader – Bryan Goodall	
8:30 a.m.	Lloyd Robeson, Air Products, Allentown, PA Polyolefins Blend Technology: Review/Recent Advances
9:00 a.m.	Walter Kaminsky, University of Hamburg, Hamburg, Germany Polyolefine-Nanocomposites by In-situ Polymerization with Metallocene Catalysts
9:30 a.m.	Don Paul, Univ of Texas, Austin, TX Polyolefin Nanocomposites: Structure and Properties
10:00 a.m.	BREAK
INVITED LECTURE SESSION VII Discussion Leader: Don Paul	
10:15 a.m.	Steve Chum, Dow Chemical Company, Freeport, TX Applications of Olefin Block Copolymer Based on Its Unique Structure/Properties
10:45 a.m.	Pat Brant, Exxon Mobil Chemical Company, Baytown, TX Polyolefin Separators for Lithium Ion Battery
11:15 a.m.	Bernard Wunderlich, University of. Tennessee, Knoxville, TN Advances in Thermal Analysis
11:45 a.m.	LUNCH
INVITED LECTURE SESSION VIII Discussion Leader: Pat Brant	
1:15 p.m.	Vernon Gibson, Imperial College, London, UK Bio-inspired Ligands for Polyolefin Catalysis
1:45 p.m.	Steve Miller, Texas A&M Univ., College Station, TX Sterically Expanded Transition Metal Catalysts for Olefin Polymerization

2:15 p.m.	Mike Chung, Penn State University, State College, PA Synthesis and Characterization of Long Chain Branched PP and Applications of PP Thin Films for High Energy Density Capacitors
2:45 p.m.	BREAK
INVITED LECTURE SESSION IX Discussion Leader: Steve Chum	
3:00 p.m.	Joao Soares, University of Waterloo, Waterloo, Canada Monte Carlo Simulation of MWD Evolution During Stopped-Flow Polymerization
3:30 p.m.	Pierre Lutz, ICS/CNRS, Strasbourg, France New Complex Macromolecular Architectures via Coordination polymerization of Macro-monomers
4:00 p.m.	Don Baird, Virginia Tech, Blacksburg, VA The Role of Extensional Rheology in Identifying Sparse Long Chain Branching in Metallocene Catalyzed Polyethylene
4:30 p.m.	Siripon Anantawaraskul, Kasetsart Univ, Bangkok, Thailand Toward a Quantitative Understanding of Polyolefin Chain Microstructure and Morphology
5:00 p.m.	Ion Tincul, Stellenbosch University, South Africa Propylene Copolymers with Fischer Tropsch Derived Olefins
DINNER ON YOUR OWN	

WEDNESDAY, SEPTEMBER 26

INVITED LECTURE SESSION X Discussion Leader: Don Morrison, Boulder Scientific Co., Longmont, CO	
8:30 a.m.	Pal Arjunan, CMR Inc./Innovante Corporation, Houston, TX Global Trends in Polyolefins Processes and Catalysts
9:00 a.m.	Brian Kneale, Albemarle Corporation, Baton Rouge, LA Developments in the Activation of Single Site Complexes for Olefin Polymerization.
9:30 a.m.	Moris S. Eisen, Israel Institute of Technology, Haifa, Israel The Effect of Cocatalysts in the Polymerization of Propylene Towards Elastomeric Materials
10:00 a.m.	BREAK
INVITED LECTURE SESSION XI Discussion Leader: Francis Mirabella, Equistar Chemical Co., Cincinnati, OH	
10:15 a.m.	Greg Saunders, Polymer Labs Ltd, Shropshire, UK Size Exclusion Chromatography - A Versatile Tool for Polyolefin Characterization
10:45 a.m.	Rufina Alamo, Florida State Univ., Tallahassee, FL Crystallization Kinetics of Random Propylene Copolymers: An Interplay of Chain Microstructure and Crystal Morphology
11:15 a.m.	Wallace Yau, Dow Chemical Company, Freeport, TX Polyolefin Characterization Using a Hybrid 3-D GPC-TREF System
11:45 a.m.	LUNCH
INVITED LECTURE SESSION XII Discussion Leader: Brian Kneale	
1:15 p.m.	Minoru Terano, JAIST, Isikawa, Japan Investigation on the Molecular States of Surface Ti Species on Ultra Low Ti

	Loading MgCl ₂ -Supported Catalysts
1:45 p.m.	Boping Liu, East China Univ. of Science & Technology, Shanghai, China Computational Molecular Modeling on the mechanism of active sites formation on Phillips Cr Catalyst
2:15 p.m.	Kevin Cann, Univation Technologies In., Freeport, TX Advanced Chromium Catalysts for Improved HDPE
2:45 p.m.	<i>BREAK</i>
INVITED LECTURE SESSION XIII Discussion Leader: Minoru Terano	
3:00 p.m.	Rick King, Ciba Specialty Chemicals Company, Terry Town, NY Advances in Polyolefin Stabilization
3:30 p.m.	Herve Marand, Virginia Tech, Blacksburg, VA Effect of Kinetic and Thermodynamic Defects on Polyolefin Secondary Crystallization and Dynamics
4:00 p.m.	Toru Arai, Denka Chemical Company, Japan A Macromer Containing Divinylbenzene Unit as the Building Block of Topologically Controlled Copolymers
4:30 p.m.	Leonardo C Simon, University of Waterloo, Waterloo, Canada Gas Phase Ethylene Polymerization Using Metallocene/Clays
5:00 p.m.	<i>Pal Arjunan and Jim McGrath: Closing Remarks</i>