

Advances in Polyolefins 2013 October 13-16, 2013 Sonoma Valley, CA

SUNDAY, OCTOBER 13

2:30 PM	REGISTRATION	
3:15 PM	James E. McGrath and Pal Arjunan	
	Overview and Objectives of the Workshop	
	KEY NOTE ADDRESS SESSION	
	Introduction: Pal Arjunan & Jim McGrath	
3:30 PM	Robert H. Grubbs, California Institute of Technology	
	Synthesis of Polymers with Controlled Stereochemistry Using Olefin	1
	Metathesis Catalysts	
4:00 PM	<u>Srivatsan lyer,</u> Braskem-USA	<u> </u>
	N. America Energy Transformation and its Impact on Petrochemicals	
4.30 PM	Patrick Brant, ExxonMobil Chemical Company	
	Overview of Drivers and Responses in Polyolefins: Keys to Their	3
	Continuing Success	
5.00 PM	Raphael Crawford, Albemarle Corporation	
	Driving Success in the Polyolefin Resin Industry through Innovative	4
	Catalytic Solutions	
5.30 PM	Edmund Carnahan, Dow Chemical Company	5
	Advances in Olefin Block Copolymers	5
6.00 PM	GENERAL DISCUSSION ON TOPICS/END SESSIONS	
6.30 PM	WELCOME RECEPTION	

Monday, October 14

7:00 AM CONTINENTAL BREAKFAST

INVITED LECTURE SESSION II		
Discussion Leader - Pal Arjunan, Trelleborg Offshore US Inc.		
8:30 AM	Tobin J. Marks, Northwestern University	6
	Bridging Homogeneous and Heterogeneous Polymerization Catalysis.	
	Tuning CatalystCatalyst and CatalystSupport Interactions	
9:00 AM	Lawrence R. Sita, University of Maryland	7
	Polyolefin Origami - Extending Structure and Function Using a Limited	-
	Toolset	
9:30 AM	T.C. (Mike) Chung, The Pennsylvania State University	8
	Functional Polyolefins for Energy Applications	
10:00 AM	BREAK	

Monday, October 14, cont'd

Di	INVITED LECTURE SESSION III scussion Leader – Dan Vanderlende, Univation Technologies	
10:30 AM	Joe Edson, Freeslate, Inc.	
	Acceleration and Automation of Ziegler-Natta Catalyst Synthesis and	10
	Associated Olefin Polymerizations	
11:00 AM	Miran Milosevic, SABIC, Europe, THE NETHERLANDS	
	Kinetic Modeling Approach and Design of a Full-Scale Commercial Model	11
	from a Lab-Batch Scale Slurry Polymerization Process	
11:30 AM	GENERAL DISCUSSION ON MORNING TOPICS	
12:00 noon	LUNCH	
	INVITED LECTURE SESSION IV	
	Discussion Leader – Jim McGrath, Virginia Tech	
1:30 PM	Scott Milner, The Pennsylvania State University	42
	Finding the Tube without Touching the Chains	13
2:00 PM	Franck D'Agosto and Christophe Boisson, Université de Lyon,	
	FRANCE	14
	Telechelic Polyethylenes by Catalyzed Chain Growth	
2:30 PM	Christophe Boisson, Université de Lyon, FRANCE	
	Borate and MAO Free Activating Supports for Molecular	15
	Complexes in Olefin Polymerization	
3:00 PM	BREAK	
	INVITED LECTURE SESSION V	
	Discussion Leader – Srivatsan Iyer, Braskem-USA	
3:30 PM	Paul J. DesLauriers, Chevron Phillips Chemical Company LP	
	Correlating Molecular Weight Distributions to Capillary Rheology	16
	Measurements Using Chemometric Methods	
4:00 PM	Yves Ramjoie, INEOS Technologies	17
	Novel Polyolefin Technology Solutions	
4.30 PM	<u>David Bergbreiter</u> , Texas A&M University	18
5 00 DM	Applications of Polyolefin Oligomers as Solvents, Ligands, and Additives	
5:00 PM	GENERAL DISCUSSION ON AFTERNOON TOPICS	
5:30 PM	SESSION ENDS	
6:00 PM	RECEPTION AND POSTER SESSION	

TUESDAY, OCTOBER 15

7:00 AM	CONTINENTAL BREAKFAST	
	INVITED LECTURE SESSION VI	
	Discussion Leader: Donald L. Morrison, Boulder-Scientific Co.	
8:00 AM	Moshe Kol, Tel Aviv University, ISRAEL	10
	From Salans to Salalens and Back: The Search for Active AND Isospecific	19
8:30 AM	Polymerization Catalysts Motthey There and Staven Diefenbach, Albemaria Corneration	
6.30 AIVI	Matthew Thorn and Steven Diefenbach, Albemarle Corporation Improving Activation Efficiency of Non-Alkylated Metallocenes for Olefin	20
	Polymerization Without Sacrificing Polymer Properties	20
9:00 AM	Patrick Brant, ExxonMobil Chemical Company	
9.00 AW	Fundamentals of Stretch Cling Film	21
9:30 AM	BREAK	
9.50 AW	BNEAN	
	INVITED LECTURE SESSION VII	
Dis	scussion Leader – Steve P. Diefenbach, Albemarle Corporation	
10:00 AM	Kenneth Wagener, University of Florida	
	The Synthesis of Precision Polyolefins Containing a Variety of Pendant	23
	Acid Groups	
10:30 AM	Benny Freeman, University of Texas, Austin	
	Thermally Rearranged Polyimides for Applications in Olefin/Paraffin	24
	Separations	
11:00 AM	Rick King, BASF Corporation	25
	Stabilization of Polyolefins: An Overview of Chemistry & Effects	
11:30 AM	GENERAL DISCUSSION ON AFTERNOON TOPICS	
12:00 noon	LUNCH	
_	INVITED LECTURE SESSION VIII	
	Piscussion Leader: Pat Brant, ExxonMobil Chemical Company	
1:30 PM	Saeid Mehdiabadi and João B.P. Soares, University of Alberta,	
	CANADA The Importance of Lleving Detailed Ethylene/g Olefin Delumerization	26
	The Importance of Having Detailed Ethylene/α-Olefin Polymerization	26
	Kinetics with Metallocene Catalysts for Developing New Polyolefin Products	
2:00 PM	Timothy F.L. McKenna, C2P2-Equipe LCPP, ESCPE-Lyon, FRANCE	
2.00 1 101	Effect Of N-Hexane as Inert Condensing Agent (ICA)	
	During Gas Phase Ethylene Polymerization on Supported Catalyst:	27
	from Experimental to Modeling Analysis	
2:30 PM	A. Willem deGroot, The Dow Chemical Company	
	A Modern Toolbox for Polyolefins Molecular Structure Determination	28
3:00 PM	BREAK	

TUESDAY, OCTOBER 15, CONT'D

INVITED LECTURE SESSION IX			
Disc	Discussion Leader: Len J. Buckley, Institute for Defense Analysis, DOD		
3:30 PM	Tad Kog and Benjamin S. Hsiao, Stony Brook University		
	Structures of Polyolefins Confined at the Nanometer Scale	29	
4:00 PM	Eric Baer, Case Western Reserve University	30	
	Polyolefin Based Multilayer Films via Forced Assembly	30	
4:30 PM	Rufina Alamo, Florida State University	31	
	Crystalline Properties of Late Generation Polyolefins	31	
5:00 PM	GENERAL DISCUSSION ON TOPICS		
5:30 PM	DINNER ON YOUR OWN	·	

Wednesday, October 16

7:00 AM	CONTINENTAL BREAKFAST	
ī	INVITED LECTURE SESSION X Discussion Leader: Arnold Lustiger, EMR&E Corporate Labs	
8:30 AM	Kathleen O'Leary Havelka, Elevance Renewable Sciences From Biorefinery to Performance Technology: Transforming Renewable Olefinic Building Blocks into Lubricants and Other High Value Products	32
9:00 AM	<u>James E. McGrath</u> and Lloyd Robeson, Virginia Tech Opportunities for Polymer Blends of Ethylene Copolymers with Polar Polymers Including PVC and Thermoplastic Polyurethanes	33
9:30 AM	Josef Jancar, Brno University of Technology, CZECH REPUBLIC Effect of Multiple Extrusion on Impact Fracture of Three Polypropylene Impact Copolymers	22
9:30 AM	GENERAL DISCUSSION ON TOPICS	
10:00 AM	BREAK	
INVITED LECTURE SESSION XI		

	INVITED LECTURE SESSION XI	
	Discussion Leader: Jim McGrath, Virginia Tech	
10:30 AM	Robert Brüll, Fraunhofer Institute for Structural Durability and	•
	System Reliability, Darmstadt, Germany	37
	Frontiers of Liquid Chromatography for Polyolefins	
11:00 AM	Pal Arjunan and Jim McGrath: Closing Remarks	