SUNDAY, SEPTEMBER 22, 2019

2:00 PM	*REGISTRATION*	
3:00 PM	**Jerzy Klosin** Welcome and Introductory Remarks	
	KEY NOTE ADDRESS SESSION Discussion Leaders: Rick Register, Ken Wagener, Jerzy Klosin, Pal Arjunan, and João Soares	
3:10 PM	**John Bercaw** (Caltech) McGrath Lecture: *Synthetic and Mechanistic Studies of Olefin Trimerization and Polymerixation with Organometallic Catalysts*	1
4:10 PM	**Vinicius Grassi** (Braskem) *Braskem's positioning on Circular Economy and Recycling of Polymers*	2
4:45 PM	*BREAK*	
5:00 PM	**Kyoko Nozaki** (Tokyo University) *Copolymerization of Olefins with Polar Monomers Catalyzed by Group 10 Metal Complexes*	3
5:35 PM	**Peter Callais** (Townsendsolutions) *Polyolefins Markets*	4
6:10 PM	**Greg Rutledge** (MIT) *Modeling of Polyolefin Crystallization*	5
6:45 PM	*WELCOME RECEPTION*	

MONDAY, SEPTEMBER 23, 2019

7:00 AM	*CONTINENTIAL BREAKFAST*	
	INVITED LECTURE SESSION II Discussion Leader: Don Morrison (Entegris)	
8:00 AM	**Jill Martin** (Dow) *Polyolefin Sustainability from Polyolefin Producer Perspective*	6
8:35 AM	**John Layman** (P&G) *Polyolefin Recycling at P&G and Beyond*	7
9:10 AM	**Jeff Fodor** (Chevron Phillips Chemical Co.) *Relating Polyethylene Microstructure to Resin Properties*	8
9:45 AM	*BREAK*	
	INVITED LECTURE SESSION III Discussion Leader: Sally Lawrence (NOVA Chemicals)	
10:15 AM	**Julie Anderson** (PepsiCo) *PepsiCo's Flexible Packaging Sustainability Journey*	9
10:50 AM	**Karen Winey** (University of Pennsylvania) *Self-Assembly of Periodic Polyethylene Sulfonates: Layered, Bicontinuous Gyroid, and Hexagonal Nanoscale Morphologies for Transport*	10
11:25 AM	**Bun Yeoul Lee** (Ajou University) *Synthesis of Polyolefin-Based Triblock Copolymers*	11
12:00 PM	*LUNCH*	

MONDAY, SEPTEMBER 23, 2019, CONT'D

	INVITED LECTURE SESSION IV Discussion Leader: Kazuo Takaoki (Sumitomo Chemicals)	
1:15 PM	**Daniel Read** (University of Leeds) *Molecular Rheology and Flow-Induced Crystallization*	12
1:50 PM	**Sudhin Datta** (ExxonMobil) *Compatibilization in Polyolefin Rubber – Isotactic Polypropylene Blends*	13
2:25 PM	**Vincenzo Busico** (University of Naples) *High Throughput Experimentation Aided QSAR Modeling of Olefin Polymerization Catalysts: Another Step towards Catalyst Design*	14
3:00 PM	*BREAK*	
	INVITED LECTURE SESSION V Discussion Leader: Mari Rosen (The Dow Chemical Company)	
3:30 PM	**Gabriele Mei** (LyondellBasell) *Recent Developments in Polyolefin Catalysts, Hyperzone PE Process Technology, and Recycling/Sustainability Innovation*	15
4:05 PM	**Rhett Kempe** (University of Bayreuth) *Efficient and Controlled Catalytic Synthesis of Functionalized Hydrocarbons from Ethylene*	16
4:40 PM	**Rongjuan Cong** (The Dow Chemical Company) *Journey towards Ideal Tools to Characterize Polyolefin Structure*	17
5:15 PM	**Geoff Coates** (Cornell University) *Synthesis of New Polyolefin Architectures*	18
5:50 PM	*RECEPTION AND POSTER SESSION*	

TUESDAY, SEPTEMBER 24, 2019

7:00 AM	*CONTINENTAL BREAKFAST*	
	INVITED LECTURE SESSION VI Discussion Leader: Fumihiko Shimizu (Mitsubishi Chemical Corporation)	
8:00 AM	**Dongmei Cui** (Changchun Institute of Applied Chemistry-CAS) *Precisely Controlled (co)Polymerization of Diene and Styrene by Using rare-earth Metal Precursors*	19
8:35 AM	**Nathan Mehl** (Milliken) *Enhancing the Optical Performance of Extrusion Blow Molded PP*	20
9:10 AM	**Francisco Perez** (SABIC) *Applying Structure/Properties Modelling in Polyethylene Polymerization Technologies*	21
9:45 AM	*BREAK*	

TUESDAY, SEPTEMBER 24, 2019, CONT'D

	INVITED LECTURE SESSION VII Discussion Leader: Thomas Gungor (Tosoh Bioscience)	
10:15 AM	**Megan Robertson** (University of Houston) *Thermodynamic Interactions in Polydiene/Polyolefin Blends*	22
10:50 AM	**Justin Kennemur** (Florida State University) *Performance Elastomers from New Advances in Ring-Opening Metathesis Polymerization of Low-Strain Cycloalkenes*	23
11:25 AM	**Andreas Albrecht** (Borealis Polyolefins GmbH) *Analytical Strategies to Analyse the Chemical Heterogeneity of Polypropylene*	24
12:00 PM	*LUNCH*	
	INVITED LECTURE SESSION VIII Discussion Leader: Hamid Almegren (KACST)	
1:15 PM	**Wei Xu** (Saudi Aramco) *Antifouling Additives Technology (AFA™) ------ A R&D answer to Industrial challenges*	25
1:50 PM	**Brian Long** (University of Tennessee) *Modulating Polyolefin Microstructure via Stimuli-Mediated, Redox-Active Ni(II) α–Diimine Catalysts*	26
2:25 PM	**Markus Busch** (Technical University of Darmstadt) *For Process to Properties – Understand the Control of Microstructure in World-Scale Processes*	27
3:00 PM	*BREAK*	
	INVITED LECTURE SESSION IX Discussion Leader: Larry Sita (University of Maryland)	
3:30 PM	**Juraj Kosek** (University of Prague) *Electrostatic Charging of Polyolefin Particles on the Particle Level*	28
4:05 PM	**Bodo Richter** (Evonik) *Catylen® S 300 – a Spherical Mg-Ethanolate Support for Ziegler Natta Catalysts of Superior ICP-PP Capability and Well-Defined Particle Morphology*	29
4:40 PM	**David Fiscus** (ExxonMobil) *Developing Structure-Process-Property Relationships using Multivariate Analysis*	30
5:15 PM	**Gerard van Doremaele** (Arlanxeo) *Bimodal copolymers with single guanidinato catalyst as example how catalyst and process technology are key for EPDM developments*	31
6:00 PM	*COCKTAILS SERVED*	
6:30 PM	*BANQUET*	

WEDNESDAY, SEPTEMBER 25, 2019

7:00 AM	*CONTINENTIAL BREAKFAST*	
	INVITED LECTURE SESSION X Discussion Leader: Gail Blakley (Grace)	
8:00 AM	**Michelle Sing** (Braskem) *Polyolefins in Additive Manufacturing*	32
8:35 AM	**Markus Klapper** (Max Planck Institute) *Morphology Control in Olefin Polymerization by Supporting Procedures*	33
9:10 AM	**Scott Milner** (Pennsylvania State University) *Chi Parameters from MD Simulations for Real Polymers*	34
9:45 AM	*BREAK*	
	INVITED LECTURE SESSION XI Discussion Leader: Don Baird (Virginia Tech)	
10:15 AM	**Massimiliano Delferro** (Argonne National Laboratory) *Catalytic Recycling and Upcycling of Polyolefins*	35
10:50 AM	**Brad Carrow** (Princeton University) *Complementary Functional Polyolefin Architectures by Uni- and Bidirectional Insertion Polymerization*	36
11:25 AM	**Pal Arjunan, João Soares, Ken Wagener, Rick Register, and Jerzy Klosin** *Closing Remarks*	

MONDAY, SEPTEMBER 23, 2019

POSTER PROGRAM

Sebastian Babik Evonik Resource Efficiency GmbH (Germany) *Novel Amorphous Poly Alpha Olefins (APAOs) as additives for classic polyolefins*	1
Amirreza Badri, Saeid Mehdiabadi, and João B.P. Soares University of Alberta (Canada) *A more detailed study on Thermal Gradient Interaction Chromatography (TGIC), Simultaneous Effect of Molecular Weight, Comonemer Content and Comonomer Type*	2
Jun Won Baek and Bun Yeoul Lee Ajou University (South Korea) *Synthesis of Polystyrene-Polyolefin-Polystyrene Triblock Copolymer using Dialkylzinc Contained Styrene*	3
Timothy McKenna, Yashmin Rafante Blazzio, Nida Othman, and Sebastian Norsic CNRS/CPE (France) *A Novel Stopped-Flow Reactor for Gas-Phase Olefin Polymerization*	4
Miloud Bouyahyi, Lidia Jasinska-Walc, and Rob Duchateau SABIC Technology & Innovation (the Netherlands) *Randomly Functionalized Polyethylenes – In Quest of Avoiding Catalyst Deactivation*	5
Sabrina da Silva, Raquel Zilz, Igo Boeira, Rafael Stieler, Adriana Casagrande, and Osvaldo Casagrande Jr. Federal University of Rio Grande do Sul (Brazil) *Binuclear Catalysts based on Phenoxyimine Ligards for Production of Oligomers and Polyethylene*	6
Xuejian Chen, Jialin Qiu, Carlos López-Barrón, Brian Rohde, Megan Robertson, and Ramanan Krishnamoorti University of Houston (United States) *Thermodynamic Interactions in Blends of Butene-Ethylene Copolymers and 1,4-Polyisoprene*	7
Yanshan Gao and Tobin Marks Northwestern University (United States) *Sythesis of Polyolefins with Controlled Microstructures using Single Site Group 4 Transition Metal Catalysis*	8
Virendra Kumar Gupta Reliance Research and Development Centre (India) *High Performance Impact Copolymer of Poypropylene: Advanced RELCAT™ Technology*	9

Jong Yeob Jeon and Chulsung Bae Rensselaer Polytechnic Institute (United States) *Preparation of Polyolefin based Anion Exchange Membranes by Friedel-Crafts Alkylation*	10
Li Jia University of Akron (United States) *Dual-Site Zwitterionic Ni(II) Catalysts for Carbonylative Copolymerization of Ethylene and Cyclic Ethers*	11
Zhongbao Jian Changchun Institute of Applied Chemistry (China) *Functionalized Polyolefins: Strategy on Design of both Polar Monomers and Group 10 Catalysts*	12
Tae Jin Kim and Bun Yeoul Lee Ajou University (South Korea) *Synthesis of ABA-Type Olefin Triblock Copolymers base on Peroxide-Mediated Alkyl-Alkyl Coupling of Diaalkylzinee*	13
Juraj Kosek, Alexandr Zubov, Klára Jindrová, Martina Lásková, and Miloš Svoboda University of Chemistry and Technology Prague (Czech Republic) *Morphology of Polyolefin Particles: Evolution, Transport and Phase Distribution*	14
Juraj Kosek, Lenka Krajáková, Josef Chmelař, Jakub Klimošek, and Patrik Schneider University of Chemistry and Technology Prague (Czech Republic) *Thermodynamics of Sorption of Gas and Liquid Penetrants in Polyethylene*	15
Hyun Ju Lee and Bun Yeoul Lee Ajou University (South Korea) *Synthesis of Long-Chain Branched Polyolefins through Coordinative Chain Transfer Polymerization*	16
Thomas Mustard, Thomas Hughes, Art Bochevarov, Leif Jacobson, H. Shaun Kwak, Tsuguo Morisato, Caroline Krauter, Sudharsan Pandiyan, and Mathew Halls Schrödinger (United States) *High throughput in Silico Reaction Screening for Tailored Catalytic Reactivity and Selectivity*	17
João Neto, Amanda Brandão, and João Soares Pontifical Catholic University of Rio de Janeiro (Brazil) *Evaluation of Artificial Neural Network Implementation for Predicting Main Characteristics of Polyolefins from Polymerization Operating Variables*	18
Sara Orski, Luke Kassekert, Wesley Farrell, Grace Kenlaw, Marc Hillmyer, and Kathyrn Beers National Institute of Standards and Technology (United States) *Design and Characterization of Model Linear Low-Density Polyethylenes by Multi-Detector Size Exclusion Chromatography*	19

Hee Soo Park, Seon Kim, and Bun Yeoul Lee Ajou University (South Korea) *Extremely Active Ethylene Tetramerization Catalyst avoiding the use of MAO*	20
Jialin Qiu, Xuejian Chen, Carlos López-Barrón, Megan Robertson, and Ramanan Krishnamoorti University of Houston (United States) *Thermodynamic Interactions in Polydiene/Polyolefin Blends*	21
Raunil Raj, Saeid Mehdiabadi, and João Soares University of Alberta (Canada) *Experimental Validation of the Molecular Weight Distribution and Chemical Composition Distribution Deconvolution Method for Polyolefins made with Ziegler-Natta Catalysts*	22
Gerold Rittenschober, Vasileios Touloupidis, and Christian Paulik Johannes Kepler University Linz (Austria) *Influence of Slurry Polymerization Conditions on the Polyethylene Molecular Weight Distribution*	23
M. Rosen, S. Boelter, D. Davies, J. Klosin, K. Milbrandt, D. Mort, A. Smith, D. Welsh, D. Wilson, and M. Wiltzius The Dow Chemical Company (United States) *Chromium Catalysts with Phospholane Ligands for Ethylene Tetramerization*	24
Nattamai Bhuvanesh, Jessica DeMott, S. Olivia Gunther, Rafael Huacuja, Jerzy Klosin, Alex Kosanovich, Qingheng Lai, Oleg Ozerov, David Pearson, Loren Press, and Todd Senecal The Dow Chemical Company (United States) *Development of Activators Based on Carborane Anions for Molecular Olefin Polymerization Catalysts*	25
Peter De Witte and Francisco Perez Valencia SABIC Technology Center Geleen (the Netherlands) *Development of a Kinetic Model for Ethylene Polymerization*	26
Zhe Zhou The Dow Chemical Company (United States) *Advancing Polyolefin Structural Analyses via NMR*	27
Bo Liu Changchun Institute of Applied Chemistry, Chinese Academy of Sciences (China) *Conjugated Diene and Ethylene Homo/Co-Polymerizations*	28