

“ADVANCES IN POLYOLEFINS II” PROGRAM

SUNDAY, OCTOBER 24

1:00 – 5:00 p.m. Scenic Tours of the Napa Valley

6:00 –9:00 p.m. Welcoming Reception

MONDAY, OCTOBER 25

7:30 a.m. Introduction, Overview and Objectives of the Workshop
James E. McGrath and Thomas L. Hanlon

INVITED LECTURE SESSION I

Paul Deck, Virginia Tech, Discussion Leader

8:00 a.m. “Single Site Catalysts Drive Advances in Polyolefin Science, Products, and Processes”
Pat Brant, Exxon Chemical Company

8:45 a.m. "Olefin Polymerizations Using Late Transition Metal Catalysts"
Maurice Brookhart, Dept. of Chemistry, UNC Chapel Hill

9:30 a.m. “Micro-and Macro Structural Control in Propene Polymerizations Using MgCl₂-Supported Catalysts”
John Chadwick, Montell Europe

10:15 a.m. BREAK

INVITED LECTURE SESSION II

Pamela Auburn, Chevron Chemical, Discussion Leader

10:30 a.m. “The Technology of Ethylene/Styrene Interpolymers”
Martin Guest, Dow Chemical Company, Texas

11:15 a.m. "The Co-Crystallization Behavior of Binary Blends of Isotactic Poly(Propylene) and Propylene-Ethylene Random Copolymers and its Relevance to the Analysis of the CCD by TREF"
Rufina G. Alamo, Dept. of Chem. Engineering, Florida State University

12:00 p.m. “New Cyclic Olefin Copolymers Made using Group VIII Transition Metal Catalysts”
Brian Goodall, BFGoodrich

12:45 p.m. LUNCH

INVITED LECTURE SESSION III

Donald McLemore, Raychem Corporation, Discussion Leader

- 1:45 p.m. "Recent Developments with Iron and Cobalt Ethylene Polymerization Catalysts"
Vernon Gibson, Imperial College, London
- 2:30 p.m. "Polymerization and Copolymerization of Olefins with Polar Monomers or with Macromonomers in the Presence of Palladium Catalysts"
Pierre Lutz, Institute Charles Sandron, France
- 3:15 p.m. "Ni(II)- and Pd(II)-based Catalysts for the Polymerization of Olefins"
Christopher Killian, Eastman Chemical Company
- 4:00 p.m. Break

INVITED LECTURE SESSION IV

Emory Ford, Equistar Research, Discussion Leader

- 4:15 p.m. Propylene Copolymerization with Metallocene Catalysts: Structure-Property Relationships."
Humberto Lovisi, IMA-UFRJ, Brazil
- 5:00 p.m. "Multi-Dimensional Stratification Processes in Polyolefin Films Detected Spectroscopically."
Marek Urban, Dept. of Chemistry, North Dakota State University
- 5:45 p.m. "Kinetic Investigations of Olefin Polymerizations with MgC12-supported Ziegler Catalysts Using Stopped-Flow Methods"
Minoru Terano, Japan Adv. Inst. of Science and Technology
- 6:30 p.m. FREE EVENING

TUESDAY, OCTOBER 26

INVITED LECTURE SESSION V

Peter Nickias, Dow Chemical Co., Discussion Leader

- 8:00 a.m. "New Sclaritech Technology"
NOVA Chemicals
- 8:45 a.m. "Mechanisms of Stereocontrol in Metallocene-Catalyzed Polymerizations of Propylene"
John Bercaw, Dept. of Chemistry, Cal Tech

9:30 a.m. "Structure-Stability-Polymerization Reactivity Relationships in Metallocenium Ion Pairs."
Tobin J. Marks, Dept. of Chemistry, Northwestern University

10:15 a.m. BREAK

INVITED LECTURE SESSION VI

Lido Porri, Polytechnic of Milan, Discussion Leader

10:30 a.m. "Advances in Stirred Bed Gas Phase Polymerization of Propylene with Supported Ziegler-Natta and Metallocene Catalysts"
Meinolf Kersting, Targor, GmbH, Germany

11:15 p.m. "A New Family of Polyolefins with Fischer Tropsch Olefins: Terpolymers of Ethylene, 1-Pentene and a Third Alpha Olefin
Ioan Tincul, Polymer Research, Sasol Technology

12:00 p.m. "New Nickel and Palladium Catalysts for Olefin Polymerization"
Peter Mackenzie, Eastman Chemical Company

12:45 p.m. LUNCH

INVITED LECTURE SESSION VII

LaMonte Adams, Univation Technologies, Discussion Leader

1:45 p.m. "The Effect of Branching on the Non-Linear Rheological Properties of Metallocene-Catalyzed Polyolefins"
Donald Baird, Dept. of Chemical Engineering, Virginia Tech, Blacksburg, VA

2:30 p.m. "Statistical Treatments of Sequence Distribution in Syndiotactic Polypropylene: The Alternating Mechanism"
Jim Randall, Baytown Polymer Center, Exxon Chemical Company

3:15 p.m. "Properties of Isotactic Poly(propylene): Some Old - Some New."
Leo Mandelkern, Dept. of Chemistry, Florida State University

4:00 p.m. BREAK

INVITED LECTURE SESSION VIII

Stephen Cheng, University of Akron, Discussion Leader

4:15 p.m. "Towards A Better Understanding of Physical Aging of Semicrystalline Polymers Above Tg. A Lesson Learned from Crystallization Studies of Homogeneous Ethylene/ α -Olefin Copolymers."
Herve Marand, Dept. of Chemistry, Virginia Tech, Blacksburg, VA

- 5:00 p.m. "Homogeneous Ethylene-Based Copolymers with Very High Comonomer Contents as Organized in Metastable States of Low Order"
Vincent Mathot, DSM Research, The Netherlands
- 5:45 p.m. "Syndiotactic Polystyrene"
Michael Malanga, Dow Chemical Company, Texas
- 6:30 p.m. Poster Session/Reception
- 8:00 p.m. Banquet
Dr. James Barber, Albemarle Corporation

WEDNESDAY, OCTOBER 27

INVITED LECTURE SESSION IX

Pal Arjunan, Exxon Chemical Co., Discussion Leader

- 8:00 a.m. "BASF Polyethylene Technology"
BASF Speaker
- 8:45 a.m. "Ethylene Polymerization and Oligomerization Using Nickel Catalysts"
Nancy W. Eilerts, Phillips Petroleum Company
- 9:30 a.m. "Vanadium Catalysts for Gas Phase EPDM Production"
Kevin Cann, Union Carbide
- 10:15 a.m. Break

INVITED LECTURE SESSION X

Al Shultz, Virginia Tech, Discussion Leader

- 10:30 a.m. "Characterization of Polyolefins By High Temperature Gel Permeation Chromatography Using Multiple Detector Techniques"
Elizabeth Meehan, Polymer Laboratories, UK
- 11:15 a.m. "Crystallization and Melting of Polyethylenes: Implications for Compositional Fractionation"
Fran Mirabella, Equistar Chemicals
- 12:00 p.m. "Recent Developments in Aluminoxane Chemistry"
Albemarle Speaker
- 12:45 p.m. Lunch

INVITED LECTURE SESSION XI

Judy Riffle, Virginia Tech, Discussion Leader

- 1:45 p.m. "Recent Advances in the Measurement of Resistance to Crack Growth in Polyolefin Film and Pipe"
Walter Bradley, Dept. of Chemistry Texas A&M University

2:30 p.m.

"Advances in Polyolefins Stabilization"
Rick King, III, Ciba Speciality Chemicals

3:15 p.m.

Break

INVITED LECTURE SESSION XII

Tom Hanlon, Albemarle Chemical Co., Discussion Leader

- 3:30 p.m. "Synthesis of Well-defined Long Chain Branching PE, PP and Study of Their Unique Rheological Properties in Melt"
Mike Chung, Dept. of Chemistry, Penn State University
- 4:45 p.m. "Compatibilization of Polyolefin/LCP Blends By ad hoc Prepared Polyolefin-g-LCP Copolymers"
Lilia Minkova, Institute of Polymers, Bulgarian Academy of Sciences
- 5:30 p.m. **Closing Remarks**