



Monday; October 6, 2008

Keynote Speaker – Manfred Klepacz – *LyondellBasell Industries*

Materials Development

Moderators: Dave Okonski
Michael Dammann

Plenary Speaker – Marty Levine, *Automotive Group of ACC Plastics Division*
Revisoning Automotive Plastics Vision in Technology Road Maps

- 1) **Softell® - Opening New Dimensions and Possibilities with Soft Touch Polypropylene Compounds**
Joan Glogovsky – *LyondellBasell Industries*
Jane Horal – *LyondellBasell Industries*
Wolfgang Jonischkeit – *LyondellBasell Industries*
Erik Licht – *LyondellBasell Industries*
- 2) **Polyolefin Based Compounds Scratch Resistance Guaranteed by Functional Alliance of Talc and Additive Used**
Kathrin Lehmann – *Evonik Goldschmidt GmbH*
Piergiovanni Ercoli Malacari – *IMIFabi Spa, Italy*
- 3) **How Material Properties Affect Simulation Results**
Joe Heibel – *Moldflow/Autodesk*
- 4) **Talc-TPO Automotive Formulations for Low Temperature Impact Ductility at -30°C and -40°C**
Saied H. Kochesfahani* – *Rio Tinto Minerals, Denver, CO*
Oscar Noel – *Rio Tinto Minerals, Denver, CO*
Frederic Jouffret – *Rio Tinto Minerals, Toulouse, France*
- 5) **The Significance of NOR Technology for the UV Stabilization for Polyolefins**
Ralph D. Maier* – *Ciba Corporation, Plastics Additives Segment, Tarrytown, NY*
Jiong Yu – *Ciba Corporation, Plastics Additives Segment, Tarrytown, NY*
Johanne Wilson – *Ciba Corporation, Plastics Additives Segment, Tarrytown, NY*
- 6) **The Case for Higher Impact Efficiency Elastomers for Rigid TPOs**
Kim L. Walton – *Performance Elastomers & Plastomers*
The Dow Chemical Company, Freeport, TX
Jim Hemphill – *Performance Elastomers & Plastomers*
The Dow Chemical Company, Freeport, TX
- 7) **High Performance TPOs to Meet the Cold Temperature Ductility Requirements in HIC & Side Airbag Applications**
James Greilich* – *Chrysler Corporation*
Joe Lemmon – *Chrysler Corporation*
Bill Bodiford – *Flint Hills Resources*
Sanjay Patel – *Flint Hills Resources*
- 8) **Innovative Solutions for Achieving High Temperature Performance with Styrenic TPEs**
Ruidong Ding* – *Kraton Polymers, Houston, TX*
Kathryn J. Wright – *Kraton Polymers, Houston, TX*



9) **Supercritical Carbon Dioxide as an Exfoliating Agent in the Preparation of a Layered Silicate Polymer Nanocomposite**

M.R Thompson* – *Department of Chemical Engineering, McMaster University*

J. Liu – *Department of Chemical Engineering, McMaster University*

Z. Zhuang – *Department of Chemical Engineering, McMaster University*

W.R. Rogers – *General Motors R&D Center, Warren, Michigan*

P.D. Fasulo – *General Motors R&D Center, Warren, Michigan*

10) **Automated Quantitative Scratch Visibility Determination Base on ASTM D7027-05**

H. Jiang – *Department of Mechanical Engineering, Texas A&M University*

R.L. Browning – *Department of Mechanical Engineering, Texas A&M University*

H.-J. Sue – *Department of Mechanical Engineering, Texas A&M University*

11) **New TPO Compounds Enabling 30% Weight Reduction with Injection Molding**

Anthony Gasbarro – *Advanced Composites, Inc.*



Tuesday; October 7, 2008

Cut Sheet Thermoforming

Moderators: Bruce Denison
Ed Bearse

1) **TPO Materials and Applications for the Transportation Industries**

Eric Short* – *LyondellBasell Advanced Polyolefins USA*
Roger Jean* – *LyondellBasell Advanced Polyolefins USA*

2) **Different Types of Thermoforming Processes for TPO's**

Ed Bearse – *Advanced Plastic Consultants LLC*

3) **Extrusion of TPO Sheet**

Richard Zydonik – *Premier Material Concepts*

4) **Lamination of Films on TPO's**

Chris Toler – *Southtech Plastics*

5) **Newest Technology in Thermoforming Equipment**

Jim Robbins – *Brown Machine Company*

6) **Tooling for TPO Thermoforming**

Doug Parker – *Parker Mold and Tooling*

7) **Syntactic Foams: Uses in Thermoforming of TPO's**

Noel Tessier – *CMT Materials Inc.*

8) **Advantages of Thermoforming, Wrap Up and Questions**

Bruce Denison – *Advanced Thermoforming Concepts*



Tuesday; October 7, 2008

Applications Development

Moderators: Robert Eller
Tom Pickett

Plenary Speaker – Robert Eller* – *Robert Eller Associates LLC*
Chrisstina Wardell – *Robert Eller Associates LLC*
Economics, Supply Chain Shifts and the Role of TPOs

1) **Low Gloss Flexible TPO Sheeting for Thermoforming**

Laura B. Weaver* – *The Dow Chemical Company*
Theresa Hermel-Davidock – *The Dow Chemical Company*
Eddy Garcia-Meitin – *The Dow Chemical Company*
David Reuschle – *The Dow Chemical Company*
Doug Waszeciak – *The Dow Chemical Company*

2) **Multicomponent Injection Molding: Enabling Soft Touch Interiors Technology Through Process and Material Development**

Jim Keeler* – *A. Schulman, Inc.*
Jeff McCoy – *A. Schulman, Inc.*

3) **Development of New TPO for Door Panel Two Shot Molding**

Satoshi Tamashita – *JSR Corporation*
Nobuyuki Toyoda – *JSR Corporation*
Kentarou Kanae – *JSR Corporation*

4) **Two-shot Molding Materials for Interior Applications**

Yu Miura – *Sumitomo Chemical Co., Ltd.*

5) **Thermoforming Processability improvement of TPO for Interior Parts**

Motoko Ito* – *Japan Polypropylene Corporation, Tokyo JPN*
Motoki Kaneno – *Japan Polypropylene Corporation, Tokyo JPN*
Kazuo Asuka – *Japan Polypropylene Corporation, Tokyo JPN*
Fusaaki Katou – *Japan Polypropylene Corporation, Tokyo JPN*
Hiroyuki Maebara – *Japan Polypropylene Corporation, Tokyo JPN*



Wednesday; October 8, 2008

Process Development

Moderator: Patti Tibbenham

Plenary Speaker – Jim Moore, *Polycon Industries (A Division of Decoma)*
Trends in Process Developments

- 1) **Foaming of Polypropylene and TPO with Nanoclay**
Amit Kumar Chaudhary* – *Dep. of Chemical Engineering & Materials Science, MSU*
Krishnamurthy Jayaraman – *Dep. of Chemical Engineering & Materials Science, MSU*
- 2) **MuCell Processing of Polyolefin Based Materials**
Angela M. Harris* – *Materials & Nanotechnology, Ford Motor Company*
Ellen C. Lee – *Materials & Nanotechnology, Ford Motor Company*
Scott Powers** – *Trexel Inc.*
- 3) **In-Mold Grained, Two-Tone IP Skin (GM Malibu)**
James D. Ford* – *O'Sullivan Films, Inc.*
Kristen Jacques – *Faurecia, KTX America*
Jeffrey Shimizu – *Faurecia, KTX America*
- 4) **Advancements in Direct Long Fiber Thermoplastics (DLFT)**
Dan Houston – *Ford Motor Company*
- 5) **At-Press TPO Technology**
Parvinder Walia* – *Dow Automotive R&D, The Dow Chemical Company*
Michael Ballot – *Dow Automotive R&D, The Dow Chemical Company*
- 6) **The Use of Flush Mount Thermocouples for Process Control in Injection Molding Applications**
Michael Groleau* – *RJG, Inc.*
Patrick Mosley – *RJG, Inc.*
Art Shubert – *RJG, Inc.*



Wednesday; October 8, 2008

Surface Enhancements

Moderators: Duane Lewis
Reza Sadeghi

Plenary Speaker – Dr. Rose Ryntz, *International Automotive Components*
Material and Process Choices for Improved Haptic

- 1) **The Class A Body Color Solution to Paint**
Tom Egan – *A. Schulman, Inc.*
- 2) **Surface Enhancement of TPO Polymer with Improved Flow and Scratch Properties**
Ashutosh H. Sharma – *AXEL Plastics Research Laboratories, Inc., Woodside NY 11377*
- 3) **Breakthrough in Low Gloss and Abrasion Resistance of Molded-in-Color Automotive Interior Components**
Steve Rogers* – *The Dow Chemical Company*
Parvinder Walia – *The Dow Chemical Company*
Norwin Van Riel – *The Dow Chemical Company*
Jeff Van Dun – *The Dow Chemical Company*
Tom Traugott – *The Dow Chemical Company*
- 4) **Erichsen vs. 5-Finger: A Robust Assessment of Scratch Test Methods for Exterior Plastic Parts**
Brad Tice – *General Motors Corporation*
- 5) **Proposed Test Method to Identify UV Induced Oil Bleed Out in Styrenic TPEs**
Bing Yang* – *Kraton Polymers, Houston, TX*
Kathryn J. Wright – *Kraton Polymers, Houston, TX*
- 6) **Adhesion Promotion Using Flame Plasma Surface Treatment – A Viable & Green Alternative to Conventional Methods**
Joseph DiGiacomo* – *Flynn Burner Corporation*