12:00 pm - 1:30 pm
Student Luncheon
White River F

1:30 pm - 4:00 pm
Extrusion- Mixing and Reactive Processes III
JW Grand Ballroom 7
Moderator: Jane Spikowski
PRODUCTION OF CONTROLLED RHEOLOGY POLYPROPYLENES FROM METALLOCENE AND ZIEGLER-NATTA RESINS
Shouliang Nie, University of Waterloo

2:00 pm - 2:30 pm
DYNAMIC RHEOLOGICAL MEASUREMENTS OF AQUEOUS POLYESTER DISPERSION IN BATCH REACTOR AND TWIN SCREW EXTRUDER
2:30 pm - 3:00 pm
Ali Goger, McMaster University
MELTING PHENOMENA AND SAMPLE PREPARATION METHOD WITHIN A PARTLY FILLED MELTING ZONE OF CO-ROTATING TWIN SCREW EXTRUDERS

3:00 pm - 3:30 pm
Kim Jacqueline Scharr, University of Paderborn
Scale up of abrasive wear in technical compounding

3:30 pm - 4:00 pm
Gonzalo Marulanda, B&P Process Equipment
Feed Mechanism for Improvement in Scale Up From Small Laboratory Reciprocating Kneaders

1:30 pm - 4:30 pm
Injection Molding- Tutorial Session 1
White River A
Moderator: Srikanth Pilla
Creep Failure of Plastics

1:30 pm - 2:00 pm
Jeffrey Jansen, Senior Managing Engineer and Partner, The Madison Group
Achieving Zero Scrap during Production: A guide to Process Robustness, Process Repeatability and Reproducibility

2:00 pm - 3:00 pm
Suhas Kulkarni
Design Errors Masquerading as Processing Failures

1:30 pm - 5:00 pm
Composites- Long Fiber Composites
White River G
Moderator: Creig Bowland
Analysis of the Process-Induced Microstructure in Injection Molding of Long Glass Fiber-Reinforced Thermoplastics

2:00 pm - 2:30 pm
Sebastian Goris, University of Wisconsin - Madison
Simulation of Long Semi-flexible Fiber Orientation during Injection Molding

2:30 pm - 3:00 pm
Hongyu Chen, Virginia Tech
Degradation of Glass Fiber Reinforced Polyamide Composites during Long Fiber Reinforced Thermoplastics Direct Extrusion Compression Moulding Process

3:00 pm - 3:30 pm
Takashi Kuboki, University of Western Ontario
Effect of different fiber tex feeding on mechanical properties of glass fiber reinforced RPET composite by DFFIM process
3:30 pm - 4:00 pm
Hiroyuki Hamada, Professor, Kyoto Institute of Technology
EFFECTS OF INJECTION MOLDING PROCESSING PARAMETERS ON EXPERIMENTAL FIBER LENGTH DISTRIBUTION OF GLASS FIBER-REINFORCED COMPOSITES

4:00 pm - 4:30 pm
Rebecca Minnick, Virginia Polytechnic Institute and State University
CELLULOSE NANOCRYSTALS AS REINFORCEMENT IN GLASS FIBER/EPOXY SHEET MOLDING COMPOUND COMPOSITES

4:30 pm - 5:00 pm
Mark Miller, Georgia Institute of Technology
Carbonization of polyacrylonitrile Nano Fiber by Cotton Candy Method

1:30 pm - 4:30 pm
Akihiro Tada, OHGI Technological Creation CO., LTD.
Engineering Properties and Structure: Durability
Room 103/104
Moderator: Daniel Liu
Moderator: Paul Hans

1:30 pm - 2:00 pm
Development of predictive and semi-gSEM models of poly(ethylene-terephthalate) degradation under multi-factor accelerated weathering exposure

2:00 pm - 2:30 pm
Laura Bruckman, Case Western Reserve University
FIBER LENGTH DEGRADATION OF GLASS FIBER REINFORCED POLYPROPYLENE DURING SHEARING

2:30 pm - 3:00 pm
Gilmar Heiderich, University of Paderborn
IMPACT OF ELEVATED TEMPERATURES ON SURFACE PROPERTIES OF ERUCAMIDE-CONTAINING POLYETHYLENE FILMS

3:00 pm - 3:30 pm
Rahul Sharma, The Dow Chemical Company
TENSILE YIELD STRESS MODELING OF PTFE PASTE EXTRUDATES: EFFECT OF PROCESSING CONDITIONS

3:30 pm - 4:00 pm
Dimitrios Vavlekas, University of British Columbia
EFFECTS OF ANNEALING ON THE BONDING PROPERTIES OF POLYMER-METAL HYBRIDS

3:30 pm - 4:00 pm
Jaime Alejandro Puentes Parodi, Ph.D Student, Leibniz-Institut für Polymerforschung
EFFECT OF DEGRADATION CAUSED BY WATER ABSORPTION ON MECHANICAL PROPERTIES OF INJECTION-MOLDED GLASS FIBER REINFORCED POLYPROPYLENE

4:00 pm - 4:30 pm
Junichi Ogawa, Mazda Motor Corporation

1:30 pm - 4:30 pm **Non-Halogen Flame Retardant Session**

**White River C/D**

Requirements & Trends in Fire Safety of Thermoplastics for Commercial Aircraft

David Sterling, Materials & Process Engineer, Boeing Company

The Challenge of Scale in Materials Selection for Product Development

Thomas Chapin, Vice President, Research, Underwriters Laboratories Inc.

Formulating Flame Retardant Compositions

Roger Avakian, Technical Fellow in the Scientific Development group, PolyOne Corporation

Nontoxic Replacements for Organohalogen Flame Retardants from Renewable Biosources

Bob Howell, Professor, Central Michigan University

Update on Surface Transportation Flame Retardancy Requirements

Margaret Baumann, G.h.associates

2:00 pm - 4:00 pm **Automotive Division Session II**

Room 101

Moderator: Suresh Shah

Keynote: Executive Study on the 2015 MAPP Benchmarking Study

Jeff Mengel, Partner, Plante & Moran

Contribution to Warpage and Shrinkage Analysis Using BlowView Software

Zohir Benrabah, NRC Automotive