Monday Afternoon

1:30 pm - 6:30 pm	**M10-Additive Manufacturing Materials(Moderators Ray Pearson and Jason Lyons)-Room S320E**
1:30 pm - 2:00 pm	3D Printing Feedstock from Recycled Materials Nicole Zander, Research Chemist, US Army Research Laboratory
2:00 pm - 2:30 pm	ASSESSING THE PERFORMANCE OF CONTINUOUSLY REINFORCED ACRYLONITRILE BUTADIENE STYRENE WITH A THERMOTROPIC LIQUID CRYSTALLINE POLYMER IN FUSED FILAMENT FABRICATION Mubashir Ansari, Virginia Tech
2:30 pm - 3:00 pm	High Impact Strength Polycarbonate Filament for Additive Manufacturing Sarah Grieshaber, SABIC
3:00 pm - 3:30 pm	Bonding Strength in Additively Manufactured Multi-Material Plastics Parts Jakob Onken, Institute of Plastics Processing at RWTH Aachen University
3:30 pm - 4:00 pm	Crystallization Kinetics during Materials Extrusion based Additive Manufacturing of Polycaprolactone Kalman Migler, NIST
4:00 pm - 4:30 pm	Processing Considerations: Cellulose Nanocrystal Thermoplastic Urethane Filament Production Jacob Fallon, Virginia Polytechnic Institute and State University
4:30 pm - 5:00 pm	STRUCTURE AND PROPERTY RELATIONSHIPS OF ADDITIVELY MANUFACTURED POLYPHENYLENE SULFIDE WITH CARBON FIBER REINFORCEMENT Peng Liu, Oak Ridge National Laboratory
5:00 pm - 5:30 pm	Strength Analysis of Fused Filament Fabricated Continuous Carbon Fiber Composite Test Samples Rogelio Herrera, University of Wisconsin - Madison
5:30 pm - 6:00 pm	IMPROVING THE ELECTRICAL CONDUCTIVITY OF PC/ABS PRINTING FILAMENT FOR FUSED FILAMENT FABRICATION USING CARBON NANOSTRUCTURES

	Nicole Hoekstra, Western Washington University
6:00 pm - 6:30 pm	RHEOLOGICAL CHARACTERIZATION AND QUALITY ASSESSMENT OF COMMERCIAL ABS FILAMENTS FOR FUSED DEPOSITION MODELING Adam Miller, Shawnee State University
1:30 pm - 5:00 pm	**M11-Color and Appearance(Moderator: Michael Willis)-Room S320D**
1:30 pm - 2:00 pm	*KEYNOTE - Global Automotive Color Trend, Popularity and Who's Driving* George Ianuzzi, Senior Sales Manager, Sandream Impact LLC
2:00 pm - 2:30 pm	A review of titanium dioxide photo-activity in polypropylene Philipp Niedenzu, Chemours
2:30 pm - 3:00 pm	Understanding Warpage in Injection-Molded Thermoplastics; Causes and the Latest Pigmentary Solutions Breeze Briggs, Technical Specialist, Pigments., BASF Colors & Effect USA, LLC
3:00 pm - 3:30 pm	Extending the boundaries: Bismuth-based pigments for the plastics industry Cristina Zanzottera, Product Manager, DCC Maastricht BV
3:30 pm - 4:00 pm	Optimizing Color: A Pigment- and Surface-Chemistry Perspective Christopher Beier, Clariant Plastics and Coatings USA, Inc.
4:00 pm - 4:30 pm	VOC Reducing Additives for Masterbatches and Final Polymer Articles Rob Lorenzini, Technology Manger , Maroon Group
4:30 pm - 5:00 pm	Keynote: Color Theory and Test Methods. Betty Puckerin, Global Manager, Ampacet Corporation
1:30 pm - 6:00 pm	**M12-Engineering Properties and Structure: Innovations in Packaging and Plastics(Moderators: MaryAnn Jones and Joel Carr)-Room S320B**
1:30 pm - 2:00 pm	EFFECT OF RESIN SELECTION ON PORE FORMATION OF POLYETHYLENE FILMS Wenyi Huang, The Dow Chemical Company
2:00 pm - 2:30 pm	Active packaging film to extend shelf-life of fresh poultry Ankush Gokhale, Bemis Company
2:30 pm - 3:00 pm	Self-Sterilizing Packaging For Medical Devices Rishabh Jain, Bemis Company
3:00 pm - 3:30 pm	Impact of Plastics Packaging on Life Cycle Impacts in the U.S. and Canada Substitution Analysis Emily Tipaldo, Director of Packaging & Consumer Products, American Chemistry Council
3:30 pm - 4:00 pm	Clear Impact Co-polymers for Thermoforming Kevin Herrington, Braskem
4:00 pm - 4:30 pm	Modeling film behavior in pallet unitization applications Pavan Valavala, Dow Chemical Company
4:30 pm - 5:00 pm	REDUCED DENSITY POLYAMIDE 66 COMPOUNDS FOR EXTRUSION APPLICATIONS Ying Shi, A. Schulman Inc
5:00 pm - 5:30 pm	THE RELATIONSHIP BETWEEN STRUCTURE AND THERMAL AND MECHANICAL PROPERTIES OF THERMOPLASTIC POLYESTER MATERIALS

	Jeffrey Jansen, The Madison Group
5:30 pm - 6:00 pm	Effect of annealing on the viscoelastic behavior of poly(ether-ether-ketone) Zhiyuan Jiang, Texas A&M University
1:30 pm - 4:30 pm	**M13-Extrusion: Twin Screw II(Moderator: Michael Thompson)-Room S320F**
1:30 pm - 2:00 pm	3D Numerical Simulation of Multiphase Flow in Partially Filled Twin Screw Extruders Hossam Metwally, Principal Engineer , ANSYS Inc.
2:00 pm - 2:30 pm	Mechanical properties of ultra-high molecular weight polyethylene nascent fibers at different screw speeds Fangke Liu, Student, Beijing Institute of Technology
2:30 pm - 3:00 pm	Viscosity and Dispersion Enhancements in Polyethylene Terephthalate Compounding Prakash Hadimani, AGM, STEER
3:00 pm - 3:30 pm	Enhancing thermal conductivity of PVDF/graphene nanocomposites by water-assisted mixing extrusion Han-xiong Huang, South China University of Technology
3:30 pm - 4:00 pm	EFFECTS OF NOVEL EXTENSIONAL MIXING ELEMENTS ON FIBER LENGTH DISTRIBUTION IN COMPOSITE EXTRUSION Molin Guo, Case Western Reserve University
4:00 pm - 4:30 pm	TRANSITION METAL DICHALCOGENIDE THERMOPLASTIC COMPOSITES PREPARED USING LAB SCALE EXTRUSION Joshua Orlicki, Army Research Laboratory
1:30 pm - 6:00 pm	**M14-Injection Molding: Materials(Moderators: Pete Grelle and Gary Smith)-Room S320H**
1:30 pm - 2:00 pm	Microinjection Molding of Polypro/Graphite Composite Shengtai Zhou, University of Western Ontario
2:00 pm - 2:30 pm	Foaming Uniformity Control of High Weight Reduction Microcellular Injection Molded Thermoplastic Elastomer Using Gas Counter Pressure Chang Che-wei, Chung Yuan Christian University
2:30 pm - 3:00 pm	MECHANICAL AND RHEOLOGICAL CHARACTERISTICS OF PP/PET BLEND WITH MALEIC ANHYDRITE AND JUTE FIBRE Abul Saifullah, Lecturer , Swinburne University Of Technology
3:00 pm - 3:30 pm	Mechanical properties of polyamide 6/zeolite composites davoud jahani, University of Bonab
3:30 pm - 4:00 pm	Effects of Processing Parameters on Fiber Length Distribution and Tensile Strength of Long Glass Fiber Reinforced Nylon66 Composites Molded Parts Hsin-Shu Peng, Feng Chia University
4:00 pm - 4:30 pm	Evaluating the Through-Plane Conductivity of Molded Parts via Magnetic Field in the Injection Molding Process Chiu Min-Chi, Chung Yuan Christian University
4:30 pm - 5:00 pm	IMPROVED PROCESSABILITY OF ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE VIA SUPERCRITICAL NITROGEN AND CARBON DIOXIDE IN

	INJECTION MOLDING Galip Yilmaz, Wisconsin Institute for Discovery at University of Wisconsin–Madison
5:00 pm - 5:30 pm	EFFECT OF STRESS RELAXATION ON SHRINKAGE AND WARPAGE OF INJECTION MOLDED PARTS Zhiliang Fan, Senior Principal Research Engineer, Moldflow R&D Center, Autodesk
5:30 pm - 6:00 pm	Studying of Viscoelasticity on Warpage Validation Chao-Tsai Huang, Assistant Professor, Tamkang University
1:30 pm - 5:00 pm	**M15-Marketing and Management-Room S322**
1:30 pm - 2:00 pm	Corporate entrepreneurship: The challenges of creating a start up culture Bonnie Bachman, Professor and Faculty Fellow, Missouri University of Science and Technology
2:00 pm - 2:30 pm	Sustainability-Driven Innovation Bonnie Bachman, Professor and Faculty Fellow, Missouri University of Science and Technology
2:30 pm - 3:00 pm	Social Media Adoption for Industrial Marketing; What's Right for You Diane Wilson, Marketing Consultant, DWA
3:00 pm - 3:30 pm	Data Sciences and Domain Expertise Combine Forces in Transforming Strategic Industrial Marketing Bala Ambravan, Co-Founder, Gadfly Zone India Gunaranjan Pemmaraju, Co-Founder, Gadfly Zone India
3:30 pm - 4:00 pm	The Third Sustainability Survey of the Plastics industry Bonnie Bachman, Professor and Faculty Fellow, Missouri University of Science and Technology Shristy Bashyal Maggie Baumann, Founder, G.H.Associates
4:00 pm - 5:00 pm	Panel discussion- Innovation and Sustainability
1:30 pm - 6:00 pm	**M16-New Technology Forum-4D Printing and Stimuli-responsive Materials(Moderators:Sydney Gladman and Stéphane Costeux)-Room S320G**
1:30 pm - 2:00 pm	4D Printing Enabled by Active Polymers and Composites Jerry Qi, Professor and the Woodruff Faculty Fellow , Georgia Tech
2:00 pm - 2:30 pm	Pixelated Polymers: Directing the Self-Assembly of Liquid Crystalline Elastomers Timothy White, Technology Advisor, Air Force Research Laboratory
2:30 pm - 3:00 pm	4D printing of Liquid crystal elastomers Taylor Ware, Assistant Professor, University of Texas at Dallas
3:00 pm - 3:30 pm	Intelligent Polyolefin: Communication Through External Stimuli Marcia Pires, Polymer Science Researcher, Braskem
3:30 pm - 4:00 pm	Self-folding of Polymer Sheets Using Light Mike Dickey, Alumni Distinguished Professor, North Carolina State University
4:00 pm - 4:30 pm	Environmentally-triggered snap-through in soft structures

	Jordan Raney, Assistant Professor, University of Pennsylvania
4:30 pm - 5:00 pm	Panel Discussion
5:00 pm - 5:30 pm	Micro and Nano-Scale Surface Information Programming on Transparent Multilayer Shape Memory Films Zhenpeng Li, Case Western Reserve University
5:30 pm - 6:00 pm	Architected Multiscale Polymeric Foams Md Faisal Ahmed, Florida State University
1:30 pm - 6:00 pm	**M17-Rotational Molding: New Materials for Rotational Molding(Moderator: Denis Rodrigue)-Room S320A**
1:30 pm - 2:00 pm	New solutions for Light Stability of PE in Rotomolding - ver. 2 - 9th Jan 2018 Enrico Costantini, Chief Technology Officer , SABO SpA
2:00 pm - 2:30 pm	Quality monitoring of rotational molded parts using a nondestructive technique Felipe Gomes, Ph.D Student, McMaster University
2:30 pm - 3:00 pm	3D CHARACTERIZATION AND MECHANICAL ANALYSIS OF POLYETHYLENE FOAMS PROCESSED IN RAPID ROTATIONAL FOAM MOLDING Wing Yi Pao, University of Ontario Institute of Technology
3:00 pm - 3:30 pm	3-DIMENSIONAL CHARACTERIZATION OF THE QUALITY OF FOAM-TO-SKIN BONDING OF RAPID ROTATIONALLY FOAM MOLDED INTEGRAL-SKIN CELLULAR COMPOSITES . UTKARSH, UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY
3:30 pm - 4:00 pm	SURFACE TREATMENT OF AGAVE FIBERS AND ITS COMPATIBILIZATION WITH PLA TO PRODUCE ROTATIONAL MOLDED BIOCOMPOSITES Jorge Robledo-Ortíz, Universidad de Guadalajara
4:00 pm - 4:30 pm	MECHANICAL CHARACTERIZATION OF POLYETHYLENE/CARBON NANOFIBER COMPOSITES PREPARED BY ROTATIONAL MOLDING Milton Vazquez Lepe, Universidad de Guadalajara
4:30 pm - 5:00 pm	OPTIMIZATION OF THE ROTATIONAL MOLDING PROCESSING OF AGAVE FIBER / LMDPE COMPOSITE MATERIALS Pedro Ortega-Gudiño, Researcher, Universidad de Guadalajara
5:00 pm - 5:30 pm	MORPHOLOGY AND MECHANICAL PROPERTIES OF POLY(LACTIC ACID)/POLYETHYLENE BLENDS PRODUCED BY ROTATIONAL MOLDING Eduardo Ruiz Silva, Universidad de Guadalajara
5:30 pm - 6:00 pm	ROTATIONAL MOLDING OF HYBRID COMPOSITES BASED ON LINEAR LOW DENSITY POLYETHYLENE/GROUND TIRE RUBBER/MAPLE WOOD FIBERS Denis Rodrigue, Professor, Université Laval
1:30 pm - 5:30 pm	**M18-Technical Marketing: Polymer Processing II(Moderator: Joe Golba)-Room S320C**
1:30 pm - 2:00 pm	New Overmolding TPEs in Applications with Unique Requirements Kushal Bahl, Teknor Apex Company
2:00 pm - 2:30 pm	Two Component Micro Molding

	Brian Heugh, Wittmann Battenfeld
2:30 pm - 3:00 pm	Synventive's new synflow® technology allows molders greater ability than ever before to manipulate the filling of the cavities in an upgradable package. Greg Osborn, Account Manager, Synventive Molding Solutions
3:00 pm - 3:30 pm	Cooling-Free Valve Gating Joerg Schmidt, MHS - Mold Hotrunner Solutions Inc.
3:30 pm - 4:00 pm	Taking Injection Mold Cooling to the Next Level Kenneth Johnson, Founder and President, MoldCool USA
4:00 pm - 4:30 pm	Advancements in Fiber Laser Workstations for Plastic Welding Applications Ben Campbell, Assistant Professor of Engineering, Robert Morris University
4:30 pm - 5:00 pm	Innovations in plastic welding technologies: Hot Gas Welding Anthony Verdesca, Bielomatik Inc
5:00 pm - 5:30 pm	Introducing STRIDE, a Collaborative Approach to Consulting and Contract R&D Debora Massouda, Science Technology and Research Institute of Delaware (STRIDE)