

ENGINEERING PLASTICS

WORTH DRIVING

Agenda

7:00-8:10 **Registration & Continental Breakfast: Breakfast Sponsored by Moxietec**
 8:10-8:25 **Opening Remarks(Auditorium):** David Okonski, General Motors, Conference Chair
 8:25-8:40 **Conference Executive Chair:** Royal Lovingfoss, National Center for Advanced Material Performance, National Institute for Aviation Research
 8:40-8:45 **Technical Program Overview:** Sandra McClelland, Solvay Materials, Conference Technical Chair
 8:45-9:10 **KEYNOTE: Tale of Market Dualities**
SPEAKER: Joe Langley, Associate Director & Edwin Pope, Principal Analyst, IHS Markit

	I. Additive Manufacturing	II. Sustainability	III. Award Winning Applications	IV. Materials
9:20 - 9:45	Cost and Sustainability Comparison of Injection Molding With 3D and Injection Printing David Kazmer UMASS LOWEL	Plastic Waste Management Alternatives Kathy Minnich FORD MOTOR COMPANY RETIREE	Ford Transit Lightweight, Structural Mirror Housing Bracket Patti Tibbenham FORD MOTOR COMPANY Ricardo Mercado - BASF CORP	High Performance Polyamides for Today's Emerging Applications Gregory Beach EMS-GRIVORY
9:45 - 10:10	Liquid Crystalline Polymer Reinforced Wholly Thermoplastic Composites Cailean Pritchard VIRGINIA TECH	End of life Automobile Recycling Kari Bliss PADNOS	The Jeep Grand Cherokee Composite Tunnel Reinforcement - A lighter, stronger solution to a High Strength Metal Assembly Christopher Korson BASF CORP	Advantages of Polyamide Blends Bryan Hildenbrand LYONDELLBASELL
10:10 - 10:35	3D Printing From SKY to Drive Walter Thompson SABIC	LANXESS Sustainable Durethan Polyamide and POCAN Materials Dan Knapp LANXESS	Cost Effective Application of Injection Molded CFR Composites in High Volume Production Jason Schultz STELLANTIS	Novel Polyamide Solution for Damping Enhancement in Anti Vibration Structural Applications Bradley Sparks ASCEND PERFORMANCE MATERIALS
10:35 - 11:00	Break Sponsored by Solvay			
11:00 - 11:25	PPG ARE 3D Printing Materials Cindy Kutcho PPG	Duranex 330LW - Laser Weldable PBT, Durafide 616A7S Low Swell PPS and Duracon Sustainable POM Ted Largent POLYPLASTICS	Rassini's Innovative Journey to HP-RTM Manufacturing Reyes Baeza RASSINI	Thick Structurally Robust InjectionMolded Thermoplastic Foams Alicyn Rhoades MOXITEC
11:25 - 11:50	Advancements of Photopolymer Resins for Additive Manufacturing Brian Durand LOCTITE	Polyamide 11: An Advanced Bio-Circular Material for the Automotive Industry Rob Kaminsky ARKEMA	Creamid S Semi-Aromatic Polyamides for Fan Disk Application Tariq Oweinteen TEKNOR APEX	Emotional Materials for Automotive Interior/ Exterior Parts DoYoung Bae SAMYANG CORP
11:50 - 12:20	KEYNOTE: The Rapidly Disappearing ICE Age SPEAKER: Sandy Munro, CEO, Munro and Associates			

12:20 -
1:20

	Lunch			
	Salon A	Salon B	Dennison Salon	Salon C
	V. Additive Manufacturing page 21	VI. Sustainability page 25	VII. Electrification and Autonomous - page 27	VIII. Aerospace to Automotive - page 32
1:20 - 1:45	Fused Filament Fabrication vs Fused Granulate Fabrication (Direct Pellet Printing) Gregory Costantino COVESTRO ADDITIVE MFG. Zac DiVencenzo JUGGERBOT 3D	Application of Low-Cost Reclaimed Carbon Fiber Composites in Lightweight and Structural Automotive Parts Birat KC UNIVERSITY OF TORONTO	New Design for Electric Vehicle Charging Inlet Beau Bacho LANXESS	What the Automotive Industry Can Learn From Thermoplastic Solutions for Flammability and Toxicity Requirements in the Aerospace Industry Sebastian Alvarez, Colette Brunner SOLVAY
1:45 - 2:10	Charging Up With Additive Manufacturing Fadi Abro STRATASYS	Solving BSR Issues With Non-PTFE Lubricated Compounds Ed Williams SABIC	PEI Based Thermoplastic Resin Lenses for Automotive LIDAR Somasekhar Bobba Venkat SABIC	What the Automotive Industry Can Learn from High-rate Manufacturing of Thermoplastic Aerospace Structure Trevor McCrea SOLVAY
2:10 - 2:35	Precision Metal 3DPrinting: A New Opportunity for Moldmakers and Molders Paul DiLaura MANTLE INC	Bio-Based Engineering Plastics for Automotive Applications Kanatani Keiichiro MITSUBISHI CHEMICAL AMERICA	New Innovations in V-0 Flame Resistant (PA66/6i) (PA66&PA6) and (PPE/PS) Grades for Electrified Drive and Battery Systems Jun Mikami ASAHI KASEI PLASTICS NA	Enabling Technologies and Future Direction for Increasing Composite Part Throughput From Aerospace to Low-Volume Automotive & Advanced Air Mobility Levels Adrian Ohlfs TORAY COMPOSITES MATERIALS AMERICA
2:35 - 3:00	Break Sponsored by Pinfa			
3:00 - 3:30	KEYNOTE: How Composites May Play a Role in Future Mobility SPEAKER: Carla Bailo, CEO, Center for Automotive Research			
3:30 - 4:00	Panel Discussion: How and When to Choose an AM Solution Panelists: AM Materials: Rebecca Fecteau, Head of Sales, BASF 3D Printing Solutions NA AM Hardware: Fadi Abro, Director of Auto Business, Stratasys	Beyond Pellet: Custom Compounding Enabler Sustainability Nick Sandland TEKNOR APEX	Novel Carbon Additive for High Performance EMI Shielding Materials Limeng Chen CABOT CORPORATION	Automotive to Aerospace - Scalable Compression Molding Jeffery Simek RCO ENGINEERING & RCO AEROSPACE
4:00 - 4:30	AM Printing Services: Charlie Wood, Senior Director of R&D, Fast Radius AM Design: David Kazmer, Professor, UMass Lowell Moderator: Pete Zelinski Editor in Chief Additive Mfg. Magazine	Additive Manufacturing of Recycled Carbon Fiber Reinforced Polyphenylene Sulfide for Lightweight Automotive Component Mohammad Moin Garmabi UNIVERSITY OF TORONTO	Emerging Technologies for Thermoplastics Greg Shoup ALLEGHENY PERFORMANCE PLASTICS	Aerospace Thermoplastics - a Transformational Opportunity for Automotive Scott James SEKISUI AEROSPACE
4:30 - 6:00	Networking Reception: Sponsored by SPE Detroit Section, Injection Molding Division & Additive Manufacturing Section			