



Agenda

7:00-8:15 **Registration & Continental Breakfast**

8:10-8:15 **Opening Remarks(Auditorium):** Dr. Gary J. Kogowski, Ravago Holdings Americas, Conference Chair

8:15-8:30 **Conference Executive Chair:** Dale Gerard, Senior Manager of Materials Engineering, General Motors Global Propulsion Systems

8:30-8:35 **Technical Program Overview:** Sandra McClelland, Solvay Specialty Polymers, Conference Technical Chair

8:35-9:05 **KEYNOTE: Automotive Vehicle Outlook: Challenges and Transformation**

SPEAKER: Joe Langley , I H S Markit

KEYNOTE: Automotive Additive Manufacturing: Integration of Industry 4.0

SPEAKER: Edwin Pope, I H S Markit

	Salon ABC	Salon D	Dennison Salon
	I. Materials	II. Materials 2	III. Additive Manufacturing and Air Management
		<i>Moderator: Ayaz Kahn</i> Michigan State University	<i>Moderator: Daniel Pisarski</i> University of Michigan
9:30 - 10:00	Next Generation PPA is a Powertrain Game Changer	Ultrasonic Welding Study - Nissan Spoiler Assembly	Material Innovation for Additive Manufacturing
	Bill Burnham, DSM Engineering Plastics, Business Development Manager Powertrain	Jeff Woos, Nissan-USA, Polymer Engineer, Brian Haggart, INEOS Styrolution	Brandon Bouchard, Dupont, Application Development
10:00 - 10:30	Clear and Metallic PU/PUR, Class A Out of Mold	Characteristics and Applications of Flame Retardant Polyolefin/ Polyphenylene Ether Composite Alloy	3D Printing Industrialised by Virtual Engineering Simulation
	Dan Rozelman, Hennecke, CAA Senior Technical Sales Specialist	Nozomi Inagaki, Asahi Kasei Plastics, Manager Performance Plastics SBU	Kara Noack, BASF, Senior Business Development Manager
10:30 - 10:50	Break - Sponsored by Channel Prime Alliance		
10:50 - 11:20	Mineral Reinforcements in Polyamide 6. Latest Product Offerings in Talc, Mica & Wollastonite	New ASA Alloys for High Gloss Deep Color Exterior Applications with Enhanced Weathering Performance	New High Performance Charge Air Duct Materials
	Maz Bolourchi, Imerys, Sr. Manager, Polymer Applications	Samar Teli, Lotte Advanced Materials, Sr. Manager Technical Service and Application	Russell Bloomfield, DSM Engineering Plastics, General Technical Services
11:20 - 11:50	High Modulus Durethan® Polyamide 6 for Metal Replacement in Cross-Car Beam Applications	New High Heat ABS with Low Odor/Emissions for Auto Interiors	Meeting Future Trends and Challenges of Air Management Systems
	Joe Aiello, Lanxess Corporation Application Development Engineer, Structural	Tom Chu, Elix-Polymers, Business Development & Technical Support Manager-US	John Huber, Dow Dupont, Market Development Manager
11:50 - 12:55	Lunch		



1:00 - **KEYNOTE: Department of Energy LightMat Consortium**
 1:30 **SPEAKER:** Sarah (Ollila) Kleinbaum, Technology Development Manager, US Department of Energy

	Salon ABC	Salon D	Dennison Salon
	IV. Materials	V. Materials and Sustainable Products	VI. Analysis
		<i>Moderator: Kaitlyn Money</i> Bellevue University	<i>Moderator: Ken Haines</i> Mid Michigan Community College
1:30 - 2:00	DURACON H140 Series ESD POM	Plastic Material Considerations for Electrified Propulsion Systems	Random Vibration Fatigue Analysis Including Structural Interaction Effects
	Ted Largent, Polyplastics, Sales Development Manager	Xiaoling Jin, General Motors, Senior Materials Engineer	Patrick Granowicz, Dupont, Polymer Consultant
2:00 - 2:30	KEP Americas Introduces KEPITAL H100 Homo Polymer	High Performance Thermoplastic Foams for Automotive Industry	Three Dimensional Warpage, Shrinkage Anaylsis for Injection Molding
	James J. DiVita, KEP Americas, Applications Business Development Manager	Javad Sameni, University of Toronto, Post-doctoral	Srikar Vallury, Moldex3D, Engineering Manager
2:30 - 2:50	Break		

2:50 - **KEYNOTE: Carbon Fiber Affordability and the Potential for Faster Automotive Adoption of Carbon Fiber Composites in the Future**
 3:10 **SPEAKER:** C. David Warren, Oak Ridge National Laboratory, Senior Research Scientist

3:10 - **KEYNOTE: Engineered Plastics and Composites in Future Mobility Applications**
 3:40 **SPEAKER:** Carla Bailo, President and CEO, Center for Automotive Research (CAR)

3:45 - 4:15	New Generation of Coolant Resistant High Performance Materials	Sustainable Polyphenylene Sulfide Alloys for High Temperature Applications	Using Experimental Rheological Approaches to Develop Predictive Theory for Polymer Processing Applications
	Volker Plehn, Toray Resins Company, Director Business Development	Alper Kizaltas, Ford Motor Company, Lead Research Scientist, Research and Innovation Center	Ryan Hall, University of Michigan PhD student
4:15 - 4:45	Recycled Carbon Fiber Filled-Engineering Compound for Automotive Applications	No Compromise: Post Industrial & Post Consumer Plastic for Automotive & Consumer - Electronics Applications	Statistical Data Analysis of Weathering of Thermoset Unsaturated Polyester
	Bo Sun, University of Toronto, Post-doctoral	Richard Broo, Lavergne Groupe, Inc., Growth Guru Leader	Daniel Kim, Global Materials Research, Business Development Manager

4:50 - **Networking Reception: Sponsored by SPE Detroit Section, Automotive Division, & Injection Molding Division**
 6:30