



Agenda

- 7:00-8:05 **Registration & Continental Breakfast**
- 8:05-8:15 **Opening Remarks(Auditorium):** Dr. Gary J. Kogowski, Ravago Holdings Americas, Conference Chair
- 8:15-8:50 **Conference Executive Chair:** Kevin Quinn, Director General Motors Global Propulsion Systems
KEYNOTE: Engineering Plastics and Additive Manufacturing
- 8:50-8:55 **Technical Program Overview:** Sandra McClelland, Solvay Specialty Polymers, Conference Technical Chair
- 8:55-9:00 **Schoolcraft Presentation to Detroit Section**
- 9:00-9:30 **KEYNOTE: Nylon & Polycarbonate: How We Got Here and What Lies Ahead**
SPEAKER: Brendon Dooley , Global Director Engineering Resins, I H S Markit

	Salon ABC	Salon D	Dennison Salon
	I. Materials	II. PA66 Opportunities	III. Additive Manufacturing and Design
9:40 - 10:10	Acetal Solutions in Challenging Materials Market	Twins Among Polyamides: A Comparison of PA6 and PA 66	Additive Manufacturing Fixtures
	James Divita Applications Business Development Manager KEP Americas james.divita@kepamericas.com	Dan Knapp, Applications Development Engineer Under the Hood, LANXESS, dan.knapp@lanxess.com	Fadi Abro, Sales Executive, Stratasys fadi.abro@stratasys.com
10:10 - 10:40	Next Generation DELRIN Technology for Gears and Safety Systems	Alternatives to PA11 and PA12 for Automotive Critical Applications	Modeling Process and Performance of High Performance Filaments Utilizing Digimat AM Software
	George Rau, Dupont, george.rau@dupont.com	Richard Bell, Development Manager DuPont richard.bell@dupont.com	Greg Constantino, DSM Engineering Plastics greg.constantino@dsm.com
10:40 - 11:05	Break		
11:05 - 11:35	KYRON-MAX The Future of Metal Replacement Thermoplastic Compounds Here Today...	Material And Application Development of New Polyimide Compounds	HP's Digital Manufacturing in Automotive
	Alex Wojtysiak, Mitsubishi Chemicals Advanced Materials alex.wojtysiak@mcam.com	Kazuhiko Hashimoto, Asahi Kasei Plastics NA khashimoto@akplastics.com	David Tucker, HP,Inc. David.Tucker@HP.com
11:35 - 12:05	Development of Novel Self-Healable CFRP Composites	Enhanced Performance of Cooling Applications with EMS Next Generation PPA	Shear Strength of Transmission Laser Weded Polyamides
	Lisha Zhang, University of Michigan zhalisha@umich.edu	Thomas Ferrari, EMS Grivory thomas.ferrari@us.emgrivory.com	Benjamin Campbell ben.campbell@mecco.com
12:05 - 1:00	Lunch		

1:00 - **KEYNOTE: Is Uncertainty the New Normal in the Automotive Industry**

1:25 **SPEAKER:** Laurie Harbour, President and CEO of Harbour Results Inc.

	Salon ABC	Salon D	Dennison Salon
	IV. Analysis	V. Materials and Electric Vehicles	VI. Materials and Sustainable Products
1:35 - 2:00	Understanding and Preventing Creep Failure in Plastics	Pocan HR; Next Generation of Hydrolysis Resistant PBT Grades	Biopolyamide Hybrid Composites for Superior Performance Applications
	Jeffery Jansen, Senior Managing Engineer Partner The Madison Group jeff@madisongroup.com	Beau Bacho, Application Development Engineer, Electrical & Electronics LANXESS beau.bacho@lanxess.com	Shaghayegh Armioun, University of Toronto shaghayegh.armioun@utoronto.ca
2:00 - 2:25	CAE Approach to Advance Composites' Manufacturing Solutions	DURANEX® PBT Resins Offer Multiple Solutions in Today's Demanding Market	Green Composites: Bio Based Resins Reinforced with Cotton-gin and Hemp Fibersg
	Alex Baker, Moldex3D, alexbaker@moldex3D.com	Ted Largent, Sales Development Manager, Polyplastics USA, Inc ted.largent@polyplastics.com	Areej Almalkawi Michigan State University almalkaw@msu.edu
2:25 - 2:50	Break		

2:50 - **KEYNOTE: North America Light Vehicle Production Outlook**

3:20 **SPEAKER:** Joe Langley, Associate Director for IHS Automotive

3:20 - 3:50	Predict and Solve Stress Marks on Product's Cosmetic Surface Using Controlled Sequential Valve Gating Simulation	Engineering Thermoplastics for Electric Vehicles	Automotive Lightweighting and Sustainability Through Polymer Composites
	Srikar Vallury, Moldex3D srikarvallury@us.moldex.com	Volker Plehn, Director of Business Development Toray Resins Co. volker.plehn@torayresins.com	Dr. Omar Faruk, University of Toronto, o.faruk@utoronto.ca
3:50 - 4:20	New ABS/PC for Best Plating Results in Auto Interiors and Exteriors	Material Requirements for Optimized Reflow in Automotive Electronics	Recycled Carbon Fiber Thermoplastic Compounds for Automotive Applications
	Tom Chu Business & Technology Development Manager, ELIX Polymers tom.chu@elix-polymers.com	Paula Kruger, Application Development, DSM Engineering Plastics paula.kruger@dsm.com	Jason Ullrich JM Polymers jullrich@jmpolymers.com
4:20 - 4:50		Effect of Polymer Crystal Quality on Structural Color Intensity from Self-absorbed Colloidal Crystals	Methodology to Use PCR (Post Consumer Recycled) Polyamide Material as an Alternative Solution to Prime Polyamide in Automotive Applications
		Tianyu Liu, University of Michigan Ann Arbor ltianyu@umich.edu	Seth Miller Wellman Advanced Materials LLC

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