

DAY 1
WEDNESDAY ACCE PRESENTATION MATRIX
Preliminary Schedule for Sept. 6, 2017
Last Updated August 2, 2017

7:00-8:00	REGISTRATION / BREAKFAST (Diamond Ballroom)			
8:00-8:30	OPENING REMARKS (Including Best Paper Awards): Rani Richardson, 2017 SPE ACCE Chair - <i>Diamond Ballroom</i>			
8:30-9:00	KEYNOTE 1 - Diamond Ballroom: David Erb, Senior R&D Program Manager at the University of Maine Advanced Structures and Composites Center <i>Road Mapping of Structural Thermoplastics and Manufacturing Research at the University of Maine</i>			
9:00-10:00	EXHIBITS OPEN & JUDGING FOR STUDENT POSTER COMPETITION (Hall C)			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 1: Advances in Thermoplastic Composites Part 1 of 5	SESSION 2: Enabling Technologies - Part 1 of 4	SESSION 3: Virtual Prototyping & Testing - Part 1 of 6	SESSION 4: BONDING, JOINING & FINISHING - Part 1 of 3
10:00-10:30	David Erb and Madeline Wehrle, <i>University of Maine Advanced Composites & Structure Center/ John Saiz, Principle Industrial Fellow at the University of Cambridge CMIST Roadmap Refinement 1: Roadmap Process Overview</i>	Seongchan Park <i>General Motors</i> Integration of Cost Models and Process Simulation Tools for Optimum Composite Manufacturing Process	Nathan Sharp <i>Purdue University</i> End to End Process Simulation of the High Pressure Resin Transfer Molding Process	Jian Tao <i>FCA US LLC</i> Development and Assessment of Infrared (IR) Welding for Joining Large and Complex Thermoplastic Body Panels
10:30-11:00	David Erb and Madeline Wehrle, <i>University of Maine Advanced Composites & Structure Center/ John Saiz, Principle Industrial Fellow at the University of Cambridge CMIST Roadmap Refinement 2: Define Application Areas</i>	Srikanth Raviprasad <i>University of Illinois at Urbana Champaign</i> Experimental Ballistics and Comparative Quantification of Novel Polymer Foam Core Sandwich Structures	Johnathan Goodsell <i>Purdue University</i> Simulation of Injection Over-Molding for High-Rate Composites Processing	Emily Dillingham <i>BTG Labs</i> Understanding and Controlling the Bond Surface in Manufacturing for Reliable Adhesive Bonding of Composites
11:00-11:30	Anthony Coppola <i>General Motors</i> Fabrication and Crush Testing of Carbon Fiber Reinforced Thermoplastic Composites for Automotive Energy Absorption Applications	Scott Blake <i>Aligned Vision</i> Transitioning Automatic Inspection of Composites from Aerospace to Fully Automated High-Volume Automotive Applications	Kouji Ishizaki <i>Big Fireworks Co., Ltd.</i> Resin Flow Analysis (CAE) of Fiber Orientation in the Screw Using Fiber Direct-Injection Injection Molding (DFFIM) and Evaluation by CT	Leo Fieldief <i>Pacific Northwest National Laboratory</i> Joining Fiber Reinforced Polymers to Metals Using Friction Stir Scribe
11:30-12:30	LUNCH, STUDENT POSTERS, LARGE-PART DISPLAY (Hall C)			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 5: Advances in Thermoplastic Composites Part 2 of 5	SESSION 6: Enabling Technologies - Part 2 of 4	SESSION 7: Virtual Prototyping & Testing - Part 2 of 6	SESSION 8: BONDING, JOINING & FINISHING - Part 2 of 3
12:30-1:00	Masaya Matsushita <i>Yuhco Co., Ltd.</i> Laminar Structure and Destruction in CFRTP Using Carbon Fiber Nonwoven Fabric	Adam Halsband <i>RuhT Strategic Partners</i> Simulation Driven Design: Enabling & Accelerating Lightweighting in Automobiles	V N Prakash Mallik Parthi <i>University of Michigan-Dearborn</i> Effect of Strain Rate on the Mechanical Response of Woven Carbon and Glass Fiber Reinforced Composites	Kerri Sakai <i>Oakland University</i> Polycarbonate-to-Polycarbonate Single Lap Joints with Polyurethane Film Adhesive
1:00-1:30	Shinji Nojima <i>Kyoto Institute of Technology</i> Effectiveness of Hybrid Composites on Mechanical Properties of Injection Molded Parts	Timo Huber <i>Fraunhofer ICT</i> Structural Thermoplastic Lightweight Design for Automotive Mass Production: Compression Molding of UD Tapes and LFT	Anthony Coppola <i>General Motors</i> Validation of Material Models for Crash Testing of Carbon Fiber Composites: Project Conclusions	Demetrios Tzelepis <i>Michigan State University</i> Adhesion Studies on Polyurea Coatings to Aluminum and Steel
1:30-2:00	David Erb, <i>University of Maine Advanced Composites & Structure Center</i> Development of a Thermofomed Rear Differential Cover Made From Recycled Carbon Fiber	Norbert Mueller <i>Engel Austria GmbH</i> T-RTM Technology and Processing of Thermoplastic Tapes - Two Technologies Managing a Common Challenge	Ying Fan <i>Western University</i> Toward an Integrated Computational Materials Engineering (ICME) Model for D-LFT Process	Andrew Valentine <i>Michigan State University</i> Efficiency of Hybrid Fastening System with Varying Bolt Diameters
2:00-3:00	EXHIBITS (Hall C)			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 9: Advances in Thermoplastic Composites Part 3 of 5	SESSION 10: Enabling Technologies - Part 3 of 4	SESSION 11: Virtual Prototyping & Testing - Part 3 of 6	SESSION 12: BONDING, JOINING & FINISHING - Part 3 of 3
3:00-3:30	Palanivel Swaminathan <i>Lanxess</i> Mass Production Applications with Tepex®, a Lightweight Thermoplastic Woven Composite	Dan Rozelman <i>Hennecke</i> Hollow HP-RTM Carbon Fiber Parts	John Moreton <i>Baylor University</i> Non-Destructive Inclusion Detection and Quantification for Carbon Fiber Laminated Composites with Pulse-Echo Ultrasonic Lens	Erik Stitt <i>Michigan State University</i> Surface Treatment of Thermoplastic for Use in Reversible Multi-Material Joints
3:30-4:00	Nobuhiko Matsumoto <i>Mitsubishi Gas Chemical Co. Inc.</i> Xylylenediamine Derived Polyamide Resin for High Mechanical Strength Composite Material	Leo Fieldief <i>Pacific Northwest National Laboratory</i> Predictive Engineering Tools for Injection Molded Long Carbon Fiber Thermoplastic Composites	Paul Van Huffel <i>Allair Engineering</i> Introduction of Multiscale Modeling to Composite Forming Simulation and Downstream Effects in Performance Simulation	Suhail Hyder Vattathurvalappil <i>Michigan State University</i> Experimental and Numerical Investigation of Bonded Joints Subjected to Transverse Impact Loads
4:00-4:30	David Erb and Madeline Wehrle, <i>University of Maine Advanced Composites & Structure Center/ John Saiz, Principle Industrial Fellow at the University of Cambridge CMIST Roadmap Refinement 3: Organize and Prioritize Application Areas</i>	Rajendra Prasath Palanisamy <i>Michigan State University</i> Structural Health Monitoring: Influence of Stress Fields in Propagation of Guided Waves in Composites	Vijay Kissan Chandela <i>Texas A&M University - Kingsville</i> FEM Modeling of Scratch Behavior of Polymer Composites	Syed Fahad Hassan <i>Michigan State University</i> A Study on Fatigue-Induced Damage and Healing Behavior of Thermoplastic Bonded Joints
4:30-4:45	Passing Time to Gather in Diamond Ballroom			
4:45-5:00	Uday Vaidya: Student Poster Competition Winners - Diamond Ballroom Sponsored by Asahi Kasei			
5:00-5:30	KEYNOTE 2 - Diamond Ballroom: Alison Starr, National Composite Centre <i>The UK National Composite Centre: Meeting the Challenges of the Automotive Industry</i>			
5:30 - 5:45	Reception Sponsor Address			
5:45-7:15	COCKTAIL RECEPTION: Fireside Room - Sponsored by Hexion			
7:15	CONFERENCE ADJURNS FOR THE DAY			

DAY 2
THURSDAY ACCE PRESENTATION MATRIX
Preliminary Schedule for Sept. 7, 2017
Last Updated August 2, 2017

7:00-8:00	REGISTRATION / BREAKFAST (Diamond Ballroom)			
8:00-8:30	KEYNOTE 3 - Diamond Ballroom: Bryan Dods, Institute for Advanced Composites Manufacturing Innovation (IACMI) IACMI: Fulfilling the Promise for Advanced Composites			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 13: Sustainable Composites - Part 1 of 2	SESSION 14: Opportunities & Challenges with Carbon Composites - Part 1 of 2	SESSION 15: Virtual Prototyping & Testing - Part 4 of 6	SESSION 16: Nanocomposites - Part 1 of 2
8:30-9:00	Omar Faruk <i>University of Toronto</i> Engine Components from 100% Recycled Carbon Fiber Reinforced Composite Materials	Bharati Balizepalli <i>The Dow Chemical Company</i> High Quality Carbon Fiber Epoxy Prepregs for a Wide Range of Reinforcement Architectures	Constantin Bauer <i>Math2Market GmbH</i> Micromechanical Simulation of a Multifunctional Hybrid Composite with Continuous Steel and Carbon Fiber Reinforcement	Ezatollah Amini <i>University of Maine</i> Effect of Adding Cellulose Nanocrystals (CNC) on the Mechanical and Thermal Behavior of Acrodur® Biocomposites
9:00-9:30	Douglas Gardner <i>University of Maine</i> Mechanical Properties of Hybrid Basalt, Carbon Fiber-filled Recycled Polypropylene and Polyamide 6 Composites	Jeff Dahl <i>Ford Motor Company</i> Carbon Fiber Composite B-Pillar Reinforcement Manufacturing: Ply Nesting and Automated Ply Layup	Robert Hart <i>University of Iowa</i> Sensing Low Velocity Impact-induced Delamination in Carbon Fiber Reinforced Composites Through Electrical Resistance Measurements	Megan Hathcock <i>University of Alabama</i> Opportunities to Improve Carbon Fiber Composites for Vehicle Lightweighting Using Graphene Additives
9:30-10:00	Leonardo Simon <i>University of Waterloo</i> Evaluation of Cellulose and Glass Fiber in Recycled Polyamide Thermoplastic Composites	Jeff Dahl <i>Ford Motor Company</i> Carbon Fiber Composite B-Pillar Reinforcement Manufacturing: Automated Preforming and Molding		Jo Anne Shatkin <i>Vireo Advisors, LLC</i> State of the Science on the Safety of Carbon-based Nanomaterial Composites
10:00-11:00	EXHIBITS OPEN & JUDGING FOR PARTS COMPETITION (Hall C)			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 17: Business Trends & Technology Solutions - Part 1 of 1	SESSION 18: Enabling Technologies - Part 4 of 4	SESSION 19: Advances in Reinforcement Technologies- Part 1 of 2	SESSION 20: Additive Manufacturing & 3D Printing- Part 1 of 1
11:00-11:30	Volker Plehn <i>Toray Automotive</i> Future Trends for High Performance Materials in Structural Components for Existing and Alternative Propulsion Systems	Andrew Maxey <i>Vartega, Inc.</i> Demonstration of Recycled Continuous Carbon Fiber	Steve Bassetti <i>Michelman</i> Fiber Sizing Fundamentals and Emerging Technologies	Sylvain Calmels <i>e-Xstream Engineering</i> Using Additive Manufacturing Simulation to Enable Confident Lightweight Automotive Design
11:30-12:00	Veera Aditya Yerra <i>Clemson University</i> "Lightweighting Closures": An Incubator for Composites-enabled Weight Reduction Strategies in Automotive Applications	Portia Banerjee <i>Michigan State University</i> Particle Filtering Based Prognosis of Fatigue Delamination Growth in Composites Using NDE Methods	Pradip Bahukudumbi <i>Coats Performance Materials</i> A New Fiber Composite Technology for Cost Effective Weight Reduction in Automotive	Lu Wang <i>The University of Maine</i> Cellulose Nanofibrils-Reinforced Polypropylene for Extrusion-based Additive Manufacturing
12:00-1:00	LUNCH, LARGE PART DISPLAY (Hall C)			
	In Onyx	In Opal/Garnet	In Emerald/Amethyst	In Pearl
	SESSION 21: Advances in Thermoplastic Composites - Part 4 of 5	SESSION 22: Opportunities & Challenges with Carbon Composites - Part 2 of 2	SESSION 23: Advances in Reinforcement Technologies- Part 2 of 2	SESSION 24: Nanocomposites - Part 2 of 2
1:00-1:30	Badin Pinpathomrat <i>Kyoto Institute of Technology</i> Mechanical and Adhesive Properties of Insert Injection Molded Aramid/Nylon Composites	Amit Chaudhary <i>The Dow Chemical Company</i> Method to Utilize Aligned Carbon-Fiber Prepreg Trim Scrap for Structural Applications	Robert Brüll <i>Institute for Textile Technology of RWTH Aachen University</i> Suitability of Basalt Fiber Reinforced Polyamide-6 for Crash Relevant Automotive Components	Mehdi Tajvidi <i>University of Maine</i> Where Nano and Sustainable Meet: Opportunities and Challenges for Automotive Applications Using Cellulose Nanomaterials
1:30-2:00	Stephen Beasley <i>Krauss-Maffei Corporation</i> New Lightweight and Surface Technologies for a New Field of Applications	Natalie Newton <i>Solvay</i> SolvLite™ 730 Prepreg: Breaking the High-Volume Barrier for Structural Composites	Yuri Imai <i>Kyoto Institute of Technology</i> Influence on Impact Properties of the Interface Between Aramid Knitted Fabric and Nylon	Helen Lentzakis <i>NanoXplore</i> Graphene Enhanced Polymer Nanocomposites
2:00-2:30	Darin Grinsteiner <i>Celanese</i> Thermally Conductive Thermoplastics: Problems and Solutions for Exterior Automotive Heat Management Systems	Rachel Frazier <i>Graphenics</i> Opportunities to Improve Carbon Fiber Composites for Vehicle Lightweighting Using Graphene Additives	Emma Floyd <i>Michigan State University</i> Tailored Fiber Alignment and the Effect on Strength of Notched Carbon Fiber Composites	Jacques Poulin <i>NanoXplore</i> Graphene Enhanced Composites for High Frequency EMI Shielding
2:30-3:30	EXHIBITS (Hall C)			
3:30-5:00	PANEL DISCUSSION: Diamond Ballroom - Moderator: Dale Brosius, IACMI Panelists:			
5:00-5:15	Reception Sponsor Address			
5:30-7:00	COCKTAIL RECEPTION: Fireside Room - Sponsored by PPG			
7:00	CONFERENCE ADJOURNS FOR THE DAY			

DAY 3
FRIDAY ACCE PRESENTATION MATRIX
Preliminary Schedule for Sept. 8, 2017
Last Updated August 2, 2017

7:00-8:00	REGISTRATION / BREAKFAST		
8:00-8:30	KEYNOTE 4 - Diamond Ballroom: Mike Whittens, Director, Global Research & Advanced Engineering Vehicle and Enterprise Sciences Ford Motor Company		
	In Onyx	In Opal/Garnet	In Emerald/Amethyst
	SESSION 25: Advances in Thermoplastic Composites - Part 5 of 5	SESSION 26: Advances in Thermoset Composites - Part 1 of 2	SESSION 27: Virtual Prototyping & Testing - Part 5 of 6
8:30-9:00	Cary Veith <i>Esprix Technologies, LP</i> Advances in Aliphatic Polyketone Composites	Jeff Klipstein <i>AOC</i> Advances in Low Density SMC for Automotive Class A and Structural Applications	Sylvain Calmels <i>e-Xstream Engineering</i> Modeling Compression Molded Materials Reinforced with Chopped Long Fibers
9:00-9:30	Probir Guha <i>Costs Performance Materials</i> Weight Reduction in Automotive Components	Thomas Skelskey <i>Ashland LLC</i> Developing Low VOC, Low Odor, Low Residual Styrene SMC Products	Sylvain Calmels <i>e-Xstream Engineering</i> Virtual Characterization of Short Chopped Fiber Reinforced Plastics Behaviors
9:30-10:00	Hong Xu <i>Hanwha Azdel, Inc.</i> Light Weight Reinforced Thermoplastic Composite with Improved Formability	Jim Emrick <i>Ashland LLC</i> Specific Modulus Targeting for SMC	Frank Abdi <i>AlphaSTAR Corporation</i> Crush Simulation of Compression Modeled Chopped Fiber Box Section by a De-homogenized Multi Scale Computational Methodology
10:00-10:30	John Fialka <i>Styrolution</i> New Material Solution for Lightweight Design	Daniel Park <i>Fraunhofer Project Center</i> New Developments in Polyurethane Sheet Molding Compound	Frank Abdi <i>AlphaSTAR Corporation</i> Multi-scale Material Modeling and Progressive Failure Analysis of a Hybrid Composite Bumper
10:30-11:30	EXHIBITS (Hall C)		
11:30-12:30	LUNCH, PARTS COMPETITION WINNERS, LARGE PART DISPLAY (Hall C)		
	In Onyx	In Opal/Garnet	In Emerald/Amethyst
	SESSION 28: Sustainable Composites - Part 4 of 4	SESSION 29: Advances in Thermoset Composites - Part 2 of 2	SESSION 30: Virtual Prototyping & Testing - Part 6 of 6
12:30-1:00	Mariana Desiree Reale Batista <i>Michigan State University</i> Hybrid Cellulose Composites: Lightweight Materials for Automotive Applications	Cedric Ball <i>Hexion, Inc.</i> Phenolic Molding Compounds in Automotive Powertrain Applications	Srikar Vallury <i>Moldex3D</i> Integrated Numerical Simulation for SMC in Compression Molding Process
1:00-1:30	Joyanta Goswami <i>Georgia Institute of Technology</i> Glass Fiber/Nanocellulose/Unsaturated Polyester Resin Composite: Processing, Properties and Potential for Automotive Applications	Ian Swentek <i>Hexion, Inc.</i> Methods to Improve Mechanical Performance of Carbon Fiber Epoxy SMC	Ahmed Hassen <i>Oak Ridge National Laboratory</i> Validation of Process and Property Prediction Tools for Injection Molded Long Fiber Reinforced Thermoplastics
1:30-2:00	Kyriaki Kalaitzidou <i>Georgia Institute of Technology</i> Cellulose Nanocrystals For Lightweight Sheet Molding Compounds Composites	Sigrid ter Heide <i>Hexion, Inc.</i> Epoxy Matrix Technologies Enabling Cost Efficient Mass Production of Composite Leaf Springs	Sebastian Coris <i>University of Wisconsin-Madison</i> Process-Induced Fiber Matrix Separation in Injection Molding of Long Glass Fiber Reinforced Polypropylene
2:00-2:30	Michel Champagne <i>National Research Council Canada</i> Lightweight D-LFT Cellulose-Based Composites for Semi-Structural Applications	Gleb Meiron <i>Fraunhofer Project Center</i> Investigation of Mechanical Property Differences Between Composites Produced Using Vacuum Assisted Liquid Compression Molding and High Pressure Resin Transfer	Place holder for Yousoo Han/ Sustainable or TP <i>University of Maine</i> Characterization of Engineering Grade Wood Plastic Composites and their Properties for High Performance Applications
2:30-2:45	CLOSING REMARKS & PART INNOVATION AWARDS: Rani Richardson, 2017 SPE ACCE Chair		
2:45	CONFERENCE ADJOURNS FOR THE YEAR		