



**AUTOMOTIVE COMPOSITES
CONFERENCE & EXHIBITION**
Novi, MI • September 7-9, 2022
Presented by SPE Automotive and Composites Divisions
WORLD'S LEADING AUTOMOTIVE
COMPOSITES FORUM

COMPOSITES THE KEY TO EV



Accepted authors and paper titles - Last Updated, July 1, 2022

Presenting Author	Abstract Title	Organization
Atik Amin	Quantitative Analysis of Internal Raster Path of Additively Manufactured Components via NDT Testing	Baylor University
Somasekhar Bobba Venkat	Reclaimed Carbon Fibre Based Sustainable Solutions for Automotive Structures	SABIC
Somasekhar Bobba Venkat	Light Weighting and Thermal Management Solutions for E.V. Battery Pack with Specialty Materials	SABIC
Robert Brull	Aluminum coated basalt fibers for automotive composites with integrated EMI-shielding	FibreCoat GmbH
Dongjie Chen	Properties of LWRT with different formulations produced in a wet-laid process	Hanwha Azdel, Inc.
Peng Cheng	Novel light weight reinforced thermoplastic (LWRT) for automotive applications	Hanwha Azdel, Inc.
Sagar M Doshi	Effect of Environmental Factors on the Properties of Resin, Interface and Composites in Automotives	University of Delaware - Center for Composite
Dominik Dorr	Towards a Virtual Process Chain for GMT as basis for Digital Product Development	University of Western Ontario (UWO), SIMUTENCE
Chandra Kishore Reddy Emani	Development of Forming Limit Diagrams for Thermoplastic Matrix Composites	University of Michigan - Dearborn
Mark Farthing	Material Characterisation and Predictive Analysis of Chopped Fibre Structures	Engenuity Ltd
Evan Freeman-Gibb	Multi-material battery enclosures: Using composites for strong, lightweight EV structures	Teijin Automotive Technologies
Adam Halsband	Development and Validation of an EMI Enhanced SMC Compound for BEV Applications	Forward Engineering North America
Adam Halsband	Structural PA-6 Organosheets-based High Voltage Battery Enclosure Concept Development	Forward Engineering North America
Navraj Singh Heer	Combined LFT-D and GMT glass reinforced nylon composite for optimization of part molding and performance	Fraunhofer Innovation Platform for Composites
Timo Huber	Innovative and sustainable composite lightweight solutions for the mobility sector X2 Flying Car	HRC Group / Advanced Composite Technology
Von Clyde Jamora	Modeling of Wrinkle Formation in Non-Crimp Dry Fabric during Preform Compaction	Old dominion University
Nithin Kaliyath Parambil	Predicting crystallization dependent residual stress development in thermoplastic composites	University of Delaware - Center for Composite

Eduardo Kerche	Characteristics of Biochar Produced from Cellulose for Atmosphere CO2 Capture	Ford Motor Company - Brazil
Jessica Lavorata	High-Rate Manufacturing of Thermoplastic Composites with Electrically Conductive Constituents	Purdue University
Kristen Malm	BYK-MAX CT 4275 : Low -Density Reinforcement for Polyamides	BYK USA Inc.
Gleb Meirson	HP-RTM and LCM applications for automotive industry	Fraunhofer Innovation Platform
Jacob Meyer	ATSP's NOWE Mold Release Coating	ATSP Innovations, Inc.
Mihaela Mihai	Nanofibrillated Cellulose in Thermoplastic Biocomposites for Eco-Responsible Automotive Parts	National Research Council of Canada
Mihaela Mihai	Eco-Parts for Automovie Interiors Made from Nanofilbrillated Cellulose / Polypropylene Biocomposites	National Research Council of Canada
Mihaela Mihai	Bonded Magnets Based on Engineering and High-Performance Thermoplastics for Electrical Engines	National Research Council of Canada
Justin Miller	Fiber spread modelling and effects on 3D tow reinforced hybrid-molded structures	Purdue University
Manju Misra	Advanced bio-carbon from waste burlap biomass for improved thermal management of biocomposites	University of Guelph
Silvana Pereira Rempel	ABS/PC polymer nanocomposites with graphene and its derivatives	Ford Motors Company
Gregory Prterala	High Voltage Battery Composite Enclosure Design - Beyond Lightweighting	Solvay Materials
Kirtunia Rahul	Impact from UT Uncertainty in Quantifying Ply Stack Orientation on Probabilistic Failure Envelope	Baylor University
Mitchell Rencheck	Utilizing Recycled Carbon Fiber-Based Composites for Sustainable Manufacturing	Oak Ridge National Lab
Paul Dason Samuel	NDE inspection of delamination in plain weave S-2 glass composites under high energy impact	Center for Composite Materials, University of
Cynthia Sangang Tchoconte	Curing behavior of plasmonic spiky gold nanoparticles integrated in an epoxy system	Texas Tech University
Mohammad Nazmus Saquib	Reconstruction of Full Fiber Orientation Distribution in Molded Composites	Old Dominion University
Elias Shakour	Developing High Performance Pultrusion Polyurethane to meet the High Temperature Requirements	BASF Corporation -
Gregory Treich	Optimization of Composite Reinforcement through Silane Analysis	EVONIK
Aniko Villanyi	Measurement and Simulation of In-Plane Permeability for Resin Transfer Molding Process	Moldex3D Northern America, Inc.
Aniko Villanyi	Experiment and Simulation of 1D Flow and In-Plane Permeability Validation	Moldex3D Northern America, Inc.
Michael Wilhelm	Doing it more sustainable - In-situ pultrusion of profiles based on PA6	Fraunhofer Institute for Chemical Technology ICT
Yanxi Zhang	Characterization of Wood Plastic Composite (WPC) by Thermal Analysis	Netzsch Instruments North America