



BOOK OF ABSTRACTS



International Congress & Exhibition

MATERIALS FOR FUTURE MOBILITY

Polymers for new mobilities

Metallic & Polymer solutions for lightweighting

3 - 4 FEBRUARY 2021

DIGITAL EDITION



With the support of the French Car Industry & the Automotive Plasturgy Professional Organisation:



Des solutions légères pour une mobilité durable

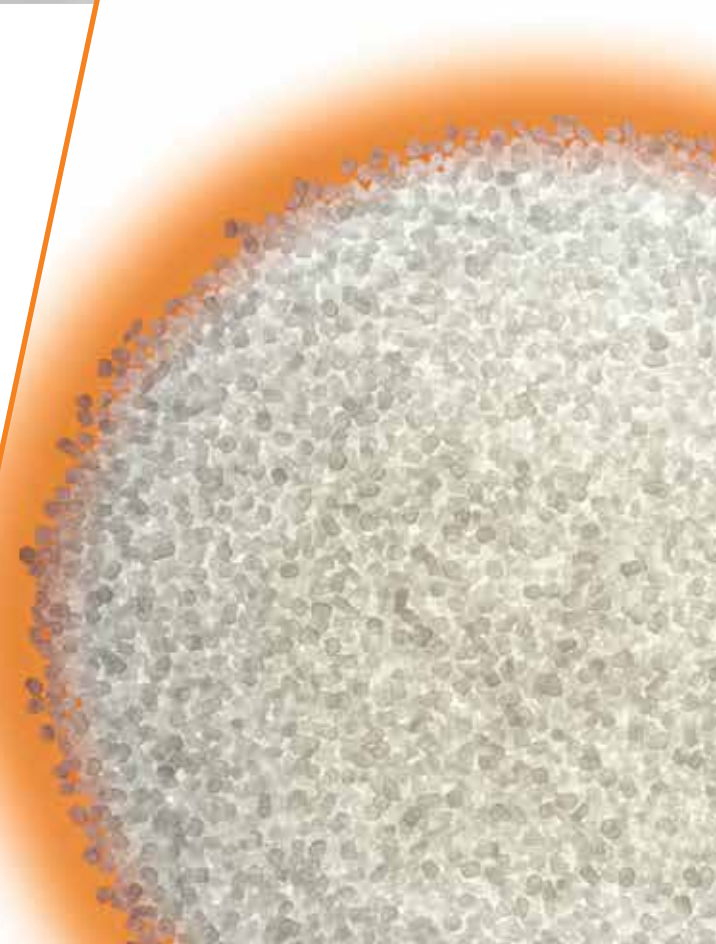


Une gamme innovante de composés de polypropylène à très haute résistance aux chocs.

Parce que nos clients sont au centre de notre démarche, nous innovons en pensant uniquement à eux. Cela nous permet d'élaborer des produits hautement différenciés, toujours conformes aux normes les plus rigoureuses.

Avec la gamme *Repsol ImpactO*[®] de composés de polypropylène à très haute résistance aux chocs, nous faisons un nouveau pas en avant. Ces matériaux légers de qualité supérieure offrent notamment une excellente solution pour toutes les applications de l'industrie automobile exigeant une haute résistance aux chocs associée à une rigidité élevée.

Augmentez l'efficacité et minimisez les émissions de CO₂, tout en bénéficiant de propriétés telles qu'une faible teneur en COV et des odeurs réduites.



PROGRAMME 3 FEBRUARY 2021

08:00	>	OPENING OF THE DIGITAL PLATFORM	
09:00	>	Ouverture du Congrès // Congress Opening SIA & SFIP	
OPENING LECTURE			
09:15	>	Automotive industry: trends and challenges Christophe AUFRERE, Chief Technology Officer, Faurecia	
09:45	>	VIRTUAL COFFEE BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
10:25	>	SESSION 1: ELECTRICAL ENERGIES // HYDROGEN AND FUEL CELLS VEHICLES Chairpersons: Maxime KOWALSKI, IRT M2P & Thierry ORSAT, Michelin	SESSION 2: MATERIALS SOLUTIONS FOR LIGHTWEIGHTING Chairpersons: Philippe ANTOINE, ArcelorMittal & Maxime TOURON, Gestamp
10:30	>	Hydrogen and land transportation Robert LASSARTESSSES, Groupe RENAULT	Use of new generation of Hot stamped grades (1,8 GPA) Patrice BELLIARD, GROUPE RENAULT Didier SARNOWSKI, ArcelorMittal
10:50	>	Innovative thermoplastic solutions for hydrogen tanks Nicolas DUFAURE, ARKEMA	Boosting the power density of traction motors in electric drive trains by higher strength lower loss electrical steels Lode VANDENBOSSCHE, ArcelorMittal
11:10	>	New material needs and testing methods for fuel cells Nicolas BATAILLEY, SOLVAY Speciality Polymers	Productive route for high strength aluminium structures: warm Stamping of 7xxx Aluminium grade Jean-Claude LE FLOUR, GROUPE RENAULT Thierry MARTIN, SNOP Sabine PHILIPPE, Constellium
11:30	>	Q&A - Round Table with speakers	Q&A - Round Table with speakers
12:00	>	VIRTUAL LUNCH BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
13:25	>	SESSION 3: ELECTRICAL ENERGIES // MATERIALS FOR ELECTRIC (EVS) AND HYBRID ELECTRIC (HEVS) VEHICLES Chairpersons: Alain GIOCOSA, SFIP & Pierre PRONOST, Plastic Omnium	SESSION 4: MATERIALS SOLUTIONS FOR LIGHTWEIGHTING Chairpersons: Laurence DUFRANCATEL, FAURECIA & Nicolas DUFAURE, ARKEMA
13:30	>	How alternative energies impact thermoplastic materials choice for Valeo Thermal Systems products: opportunities and challenges? Peggy HAVET, Valeo Thermal Systems	Carbon Fiber meets Polypropylene – New Opportunities with CF in the field of Thermoplastic Composites Christos KARATZIAS, Mitsui Chemicals
13:50	>	Glycol resistant polyamides for automotive cooling circuits Louise-Anne FILLLOT & Tristan JOBERT, DOMO	Overmolding Continuous Fiber Reinforced Thermoplastic Composites for Advanced Mobility Heiko RUHL, Avient Corporation
14:10	>	New mobility and travel experiences: contribution of new material for functional surface Alcina TANGHE, Valeo Thermal Systems Fabrice DOMINGUES DOS SANTOS, Arkema Georges HADZIOANNOU, Université Bordeaux - ELORPrintec	Novel foamed blow moulded polypropylene air ducts with improved performance. Antti TYNYS, Borealis
14:30	>	How is future mobility challenging polymer materials for immersion cooling? Fabrice GIAUME, Dupont	Use of AHSS in cold stamping for BIW light weighting: springback management with smartform® technology Marc CAPPELAERE, Groupe RENAULT Thierry MARTIN, SNOP
14:50	>	Q&A - Round Table with speakers	Q&A - Round Table with speakers
15:30	>	VIRTUAL COFFEE BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
16:10	>	END OF 1ST DAY LECTURE – Chairperson: Virginie HUGUON, Stellantis / SIA	
16:15	>	Inventions, Discoveries and Innovations: borders between scientific discoveries and technological innovations, specific examples Didier ROUX - Collège de France : Liliane Bettencourt Technological Innovation Chair (2016-2017), French Academy of Science and Technology	
16:45	>	VIRTUAL COFFEE BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
19:00	>	End of Conference 1 st Day	

PROGRAMME 4 FEBRUARY 2021

08:00	>	VIRTUAL COFFEE BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
08:25	>	SESSION 5: AUTONOMOUS AND VEHICLES INTEGRATED PHOTOVOLTAICS - VIPV Chairpersons: Amaury CORNILLEAU, Groupement Plasturgie Automobile & Laurent GERVAT, Groupe RENAULT	SESSION 6: MULTIMATERIAL JOINING TECHNOLOGIES Chairpersons: Jean-Claude LE FLOUR, GROUPE RENAULT & Olivier REBUFFET, Constellium
08:30	>	Autonomous vehicle in TCL network Jérôme SICARD, Keolis Lyon Stéphane BARBIER, Transpolis	Manufacturing of a rear seat structure with one shot hybrid thermoplastic composites Thierry RENAULT, FAURECIA
08:50	>	Components and packaging based on polymer for future automotive applications Isabelle BORD-MAJEK & Yves OUSTEN, Université de Bordeaux, Laboratoire IMS	ERWin innovation is now a mature key to support carmakers to resolve the great challenge of weight in automotive production with no opposing between environmental objectives and those of manufacturing competitiveness! Maxime GROJEAN, Gaming Engineering
09:10	>	Process development of integrated photovoltaic cells in a double-curved composite structure for automotive application Tatiana DUGOU, CEA Tech	Opportunities for the competitiveness of tomorrow's multi-material solutions Nicolas KOHOUT, IRT M2P
09:30	>	Q&A - Round Table with speakers	Q&A - Round Table with speakers
10:00	>	VIRTUAL COFFEE BREAK > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform! Do not miss the Exhibitors' Pitches!	
10:45	>	SESSION 7: CIRCULAR ECONOMY IN DEVELOPMENTS / NEW MATERIALS Chairpersons: Virginie HUGUON, Stellantis / SIA & Gérard LIRAUT, GROUPE RENAULT / SFIP	
10:50	>	All sustainable Materials at Michelin Christophe LE CLERC & Salvatore PAGANO, Michelin	
11:10	>	How to finetune materials to control the CO ₂ footprint? Hanna LARSSON, Polykemi AB	
11:30	>	THERMOFIL CIRCLE - Pushing the Boundaries of High-Performance Glass Coupled Polypropylene for accelerating part development and innovation in circular economy for sustainability Nicolas SCHLUTIG, SUMIKA Polymer Europe	
11:50	>	Aluminium, the material of choice for lightweighting and carbon footprint reduction Hervé RIBES, Constellium	
12:10	>	Autonomous vehicle in TCL network Sophie RICHET, Stellantis	
12:30	>	Q&A - Round Table with speakers	
13:15	>	Conclusion - Closing remarks SIA & SFIP	
13:30	>	NETWORKING AFTERNOON > take some time to exchange with the speakers, exhibitors & participants with the open slots for One-to-One meetings using the integrated video calls from our platform!	
18:00	>	END OF THE CONGRESS	