



PROGRAMME



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:



## MATERIALS FOR FUTURE MOBILITY

In view of the current crisis and the many uncertainties about the feasibility of holding our congress in 2021 face to face as initially planned, the Organising Committee and all stakeholders have taken the decision to transform the congress into a Digital Edition!

As a continuation of the Congress that was held in Bordeaux in 2018 and in order to take stock and evaluate the progress of the evolutions of the materials for future vehicles (choice - design and means of manufacture), the SFIP - Société Française des Ingénieurs des Plastiques and the SIA join forces to organize - with the support of GPA and PFA - a second edition of our congress "Polymer Materials for Future Mobility".

Then, in order to complement the themes of former SFIP-SIA Polymers for Future Mobility congress, the SIA through its Experts' Community "Materials and Carbody" has added a parallel session on Metallic & Polymer solutions for lightweighting leading to an expanded congress, entitled "Materials for Future Mobility" to be held on February 3<sup>rd</sup> & 4<sup>th</sup>, 2021.

These meetings and exchanges will address the following main themes:

- › Electrical Energies:
  - Hydrogen and Fuel Cells Vehicles
  - Materials for electric (EVs) and hybrid electric (HEVs) vehicles
- › Autonomous and Vehicles Integrated Photovoltaics - VIPV
- › Materials Solutions for Lightweighting
- › Polymer Solutions for Lightweighting
- › Multimaterial joining technologies
- › Circular Economy in Developments / New Materials

You will be able to hear the contributions of experts from the following companies:

ARCELORMITTAL, CONSTELLIUM, MICHELIN, FAURECIA, GROUPE RENAULT, GROUPE PSA, TRANSPOLIS, COLLEGE DE FRANCE & OTHERS.

**"Let's share and transmit our knowledge, look to the technological future and imagine joint developments"**

## SCIENTIFIC COMMITTEES

### POLYMERS FOR NEW MOBILITIES SESSIONS

Gildas BUREAU, Groupe PSA  
Amaury CORNILLEAU, GPA  
Laurence DUFRANCATEL, Faurecia  
Laurent GERVAT, GROUPE RENAULT  
Alain GIOCOSA, SFIP  
Hervé GROS, SIA  
Virginie HUGUON, Groupe PSA  
Gérard LIRAUT, GROUPE RENAULT  
Thierry ORSAT, Michelin  
Pierre PRONOST, Plastic Omnium

### METALLIC & POLYMER SOLUTIONS FOR LIGHTWEIGHTING SESSIONS

Philippe ANTOINE, ArcelorMittal  
Hervé GROS, SIA  
Virginie HUGUON, Groupe PSA  
Maxime KOWALSKI, IRT M2P  
Thierry MARTIN, SNOF  
Jean-Claude LE FLOUR, GROUPE RENAULT  
Olivier REBUFFET, Constellium  
Maxime TOURON, Gestamp



### ORGANISATION & CONTACTS

#### SPEAKERS

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#### EXHIBITION AND SPONSORING

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## 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!

**ELECTRICAL ENERGIES // HYDROGEN AND FUEL CELLS VEHICLES**  
Chairpersons: Maxime KOWALSKI, IRT M2P & Thierry ORSAT, Michelin

**MATERIALS SOLUTIONS FOR LIGHTWEIGHTING**  
Chairpersons: Philippe ANTOINE, ArcelorMittal & Maxime TOURON, Gestamp

10:30 > Hydrogen and land transportation  
Robert LASSARTESES, 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 > eMobility: A new era for High Performance Polymers  
Nicolas BATAILLEY, SOLVAY Speciality Polymers

Productive route for high strength aluminium structures: warm Stamping of 7xxx Aluminum grade  
Jean-Claude LE FLOUR, GROUPE RENAULT  
Thierry MARTIN, SNOPI  
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!

**ELECTRICAL ENERGIES // MATERIALS FOR ELECTRIC (EVS) AND HYBRID ELECTRIC (HEVS) VEHICLES**  
Chairpersons: Alain GIOCOSA, SFIP & Pierre PRONOST, Plastic Omnium

**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 > Latest developments in 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?  
Vedran MUHA, Dupont

Use of AHSS in cold stamping for BIW light weighting: springback management with smartform® technology  
Marc CAPPELAERE, GROUPE RENAULT  
Thierry MARTIN, SNOPI

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!

### END OF 1<sup>ST</sup> DAY LECTURE VIRGINIE HUGUON, SIA & GÉRARD LIRAUT, SFIP

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<sup>st</sup> 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!	
	<b>AUTONOMOUS AND VEHICLES INTEGRATED PHOTOVOLTAICS - VIPV</b> Chairpersons: Amaury CORNILLEAU, Groupement Plasturgie Automobile & Laurent GERVAT, Groupe RENAULT	<b>MULTIMATERIAL JOINING TECHNOLOGIES</b> Chairpersons: Jean-Claude LE FLOUR, GROUPE RENAULT & Olivier REBUFFET, Constellium
08:30	> Roll-out of autonomous vehicles in public condition: from the definition of use cases to operational commissioning 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	> Mechanical joining technologies: opportunities for the competitiveness of tomorrow's multi-material solutions Nicolas KOHOUT, IRT M2P
09:30	> <b>Q&amp;A - Round Table with speakers</b>	> <b>Q&amp;A - Round Table with speakers</b>
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!	
	<b>CIRCULAR ECONOMY IN DEVELOPMENTS / NEW MATERIALS</b> Chairpersons: Virginie HUGUON, Groupe PSA / 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 <sub>2</sub> 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	> Ecodesign for automotive industry Sophie RICHET, Groupe PSA	
12:30	> <b>Q&amp;A - Round Table with speakers</b>	
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	> <b>END OF THE CONGRESS</b>	



## SECURE YOUR VIRTUAL ATTENDANCE NOW!

SIA and SFIP organize a virtual exhibition during the two days of congress. Take this opportunity to present to the main experts of the sector your applications and inform participants about your products and services.



## VIRTUAL EXHIBITION 2021 - BOOTH PACKAGES

	BASIC	PREMIUM	ELITE
Rates € (Exc. French VAT of 20%)	2 000 €	3 000 €	5 000 €
<b>Virtual booth*</b>	✓	✓	✓
Included badges	2	3	5
Logo on all congress material	✓	✓	✓
Annoncement as exhibitor during the conference opening	✓	✓	✓
One to one meetings via video calls	✓	✓	✓
Products & Services showcase**		2	4
Opening session video - 10 sec. (1 session of your choice) <b>or</b> Company pitch		✓	✓
Opening video & announcement as major sponsor before the Round table or Keynote Speech - 1 min			✓
Extra badges discount		-10%	-30%

### \*Virtual Exhibitor Booths via the SwapCard platform

Features included:

- Video banner: Both exhibitors and organizers can add a video as the banner of the exhibitor profile. The video can be live or pre-recorded.
- Company details, information and social media accounts.
- Meetings: Attendees can request meetings and video calls with the exhibitor page or directly with an exhibitor member.
- Sessions: Exhibitors sponsoring or speaking in a session will have the sessions attached to their profile.
- Documents: Exhibitors can add documents and links to their profile (pdf, doc, docx, ppt, pptx, png, jpg or external links) // 2 for BASIC - 3 for PREMIUM & 5 for ELITE
- Team members: Attendees can see and contact the team members of each exhibitor company.

\*\*Products & Services Showcase: the exhibitor profile page showcases & highlight the products and services the company offers and redirect to a special page

## ADVERTISING VIRTUAL EVENTS / 2021 Rates € (Exc. French VAT of 20%)

Your banner in the confirmation e-mail sent to each participant	1 300 €
Advertising Ad on the platform home page	1 300 €
Conference book Ad Inside front cover (Distributed to all attendees)	1 300 €
Conference book Ad Inside page (Distributed to all attendees)	950 €
Opening session video - 10 sec. (1 session of your choice) - Limited number	950 €
Extra Product or Services showcase (for exhibitors only)	500 €

*You have other ideas? Please contact us to discuss the best way to highlight your company*



# BULLETIN D'INSCRIPTION . REGISTRATION FORM

Congrès international Les Matériaux pour la Mobilité du Futur - 3 & 4 février 2021  
International Congress Materials for Future Mobility – 3 & 4 February 2021

Ref: 2021-03

**MERCI DE COMPLÉTER ET DE RENVOYER CE BULLETIN À :** / PLEASE COMPLETE AND RETURN THIS FORM TO:  
SIA – 79, rue Jean-Jacques Rousseau – F-92158 Suresnes Cedex / molly.boissier@sia.fr / Fax: +33 1 41 44 93 79

 **Inscription en ligne :** [www.sia.fr](http://www.sia.fr) . Register directly on line: [www.sia.fr](http://www.sia.fr)

## EN LETTRES MAJUSCULES . IN BLOCK CAPITALS

M<sup>me</sup>/M<sup>rs</sup>  M<sup>lle</sup>/Ms  Mr/Mr

Nom / Family name ..... Prénom / First Name .....

Société / Company ..... Service / Department .....

Fonction / Position .....

Adresse / Address .....

Code Postal / Post code ..... Ville / City ..... Pays / Country .....

Tél ..... Portable / Mobile ..... Fax .....

Email .....

N° de TVA .....

## FRAIS D'INSCRIPTION . REGISTRATION FEES

- 522 € TTC** (435 € HT) - Membres SIA - SFIP / SIA – SFIP members
- 588 € TTC** (490 € HT) - Non Membres / Non members
- 360 € TTC** (300 € HT) - Co-auteurs, Laboratoires et universitaires, PME <100 salariés / co-authors, Univ and Labs, small firms <100 people
- 360 € TTC** (300 € HT) - Membres SIA des Communautés d'Experts, Doctorants / SIA Experts' Community Members, PhD Students
- Conférencier Gratuit** (un seul par présentation) / Speaker (one by company by presentation)
- Exposant** / Exhibitor
- Comité** / Committee

Tarifs préférentiels pour les groupes (> 5 pers d'une même société) - Pour plus d'informations, nous contacter : molly.boissier@sia.fr  
Preferential rates for groups – For further information, contact us.

## PAIEMENT **Merci de préciser l'adresse de facturation si différente** PAYMENT (Please precise the invoice address)

- Par chèque bancaire** à : "Société des Ingénieurs de l'Automobile" / By check in Euros made payable to: "Société des Ingénieurs de l'Automobile"
- Par virement en Euros payable** à : "Société des Ingénieurs de l'Automobile" / By bank transfer in Euros made payable to: "Société des Ingénieurs de l'Automobile" (please enclose a copy)

IBAN: FR76 30003 03290 00020040139 58 – BIC – Adresse SWIFT : SOGEFRPP

**Veillez indiquer votre nom et la référence : 2021-03 / Please, precise your company name and reference: 2021-03**

**Par carte de crédit** / By credit card:  American Express  Diners  Visa  Eurocard Mastercard  
Je soussigné(e) / I hereby .....

Autorise la SIA Sarl à débiter la somme de / authorise the organisers to charge my credit card to the amount of: ..... €

Sur ma carte de crédit n° / On my Card n°: ..... Date de validité / Expiration date ..... / .....

Cryptogramme visuel (3 derniers chiffres au verso de la carte VISA ou les 4 chiffres au recto de la carte AMEX)  
3 or 4 digit CVV or CVC number (on back or front of credit card) .....

Nom du porteur de la carte / Cardholder's name .....

Date & signature :

Cachet de la société / Company stamp

### MODALITÉS D'INSCRIPTION

- Les frais d'inscription comprennent l'accès aux conférences, les résumés et les présentations PDF.
- Dans le cas où le règlement ne pourrait être joint, merci d'envoyer un bon de commande officiel ; faute de paiement effectué au jour de la manifestation ou de la réception d'un bon de commande, l'accès aux conférences ne sera pas possible.
- Dès réception de votre inscription, nous vous ferons parvenir une facture. Merci de nous indiquer l'adresse de votre service comptabilité si nécessaire.
- **Conditions d'annulation** : merci de prendre connaissance des Conditions Générales de ventes de la SIA. Les participants ont la possibilité de se faire remplacer, uniquement sur demande écrite.

### REGISTRATION CONDITIONS

- Registration fees include participation in the conference, abstracts book and PDF presentations.
- Where it is not possible to send the payment together with the form, each registration should be accompanied by an official purchase order. Failing reception of an official purchase order or payment on the day of the congress, we regret that you will not be allowed entry to the congress.
- When we have received the registration form, we will send you a confirmation message and an invoice. Please indicate the accounts department address when necessary.
- **Cancellation policy**: please take into consideration the SIA's General Terms and Conditions. Registered participants not able to attend may nominate a substitute and inform us in a written form.