

➤ PROGRAMME



With the support of the  
French Car Industry



International Congress & Exhibition

# SIA MULTI-MATERIAL

What lightweighting for the vehicles  
of tomorrow?

20 - 21 MARCH  
2019

ESTACA  
MONTIGNY-LE-BRETONNEUX





 Altair  
**ENLIGHTEN**<sup>®</sup>  
AWARD

## Etes-vous un précurseur de l'allègement automobile ?

### Bénéficiez d'une reconnaissance mondiale grâce à l'Altair Enlighten Award<sup>®</sup> 2019

Vous disposez d'un véhicule, d'un module, d'un système ou d'une technologie innovante permettant la réduction du poids des véhicules d'aujourd'hui ou du futur. Participez à l'Enlighten Award<sup>®</sup> 2019 et soyez reconnus mondialement comme leader dans les solutions de l'allègement.

Les gagnants et finalistes des précédentes éditions : **U.S. Steel, American Axle, FCA, AP&T, Toyota, BMW, Honda, Constellium, Faurecia, Ford Motor Company, GM, Jaguar Land Rover.**

**Soumettez votre projet dès à présent !**  
Informations et détails sur [altairenlighten.com/award](http://altairenlighten.com/award)

Presented in partnership with:  
**CAR**  
CENTER FOR AUTOMOTIVE RESEARCH

Supported by:  
**SAE**  
INTERNATIONAL<sup>®</sup>

**AUTOMOBIL**  
**INDUSTRIE**

## INTRODUCTION



**Virginie Huguon**  
Chairwoman of the Congress

The SIA - Société des Ingénieurs de l'Automobile - through its Experts' Community "Materials and BIW" is pleased to invite you to the second edition of its **Multi-Material congress** - "What lightweighting for the vehicles of tomorrow?" to be held on **20 & 21 March 2019** at the **ESTACA engineers school** near Paris.

Two days of exchanges, meetings, networking and conferences around an exhibition.

The objectives of this congress are multiple:

- Address tomorrow's vehicle stakes in a fast moving regulation time and present how automotive industry is managing these evolutions (electric vehicles, autonomous vehicle...)
- Understand impact of batteries integration on electric vehicles architecture (lightweight, performances,...)
- Share the importance of lightweight management in CO<sub>2</sub> emissions and battery operating life
- Present innovative product & process solutions to address these expectations in metallic and plastic materials, forming and joining technologies

AND THUS FEDERATE THE ENTIRE AUTOMOTIVE INDUSTRY AROUND THE VIRTUOUS IMPACTS OF LIGHTWEIGHTING FOR THE NEXT-GEN VEHICLES!

This event will be chaired by Virginie Huguon, PSA Group Senior Expert Car body.

## SCIENTIFIC & ORGANISING COMMITTEE

**Virginie HUGUON**, Congress Chairwoman, GROUPE PSA

Philippe ANTOINE, ARCELORMITTAL

Fabien CHARNEUX, SNOF

Laurence DUFRANCATEL, FAURECIA SYSTEMES D'INTERIEUR

Jean-Claude LE FLOUR, GROUPE RENAULT

Emmanuel LEROY, GESTAMP

Gérard LIRAUT, GROUPE RENAULT

Christophe MILLIERE, IRT M2P

Jean-François PRAT, PLASTIC OMNIUM INTELLIGENT EXTERIOR SYSTEMS

Olivier REBUFFET, CONSTELLIUM

Jean-Luc THIRION, ARCELORMITTAL

Hervé GROS, SIA

Molly BOISSIER, SIA

## ACCESS INFORMATION



### ESTACA Paris-Saclay

12 avenue Paul Delouvrier - RD 10  
78180 Montigny-le-Bretonneux  
+33 (0)1 75 64 50 41



## ACCOMODATION

### Hôtel Mercure

**Saint-Quentin-en-Yvelines Centre**  
9 place E.F Choiseul  
Avenue du centre  
78180 Montigny Le Bretonneux  
Tel. : 01 39 30 18 00  
H1983@accor.com

### Hôtel Restaurant Campanile

**Saint-Quentin-en-Yvelines**  
Centre commercial régional  
2 place Georges Pompidou  
78180 Saint-Quentin-en-Yvelines  
Tel. : 0892 23 48 15  
stquentinenyvelines@campanile.fr

### Hôtel ibis

**Saint-Quentin-en-Yvelines**  
Vélodrome  
2 Place de la Paix Celeste  
78180 Montigny-le-Bretonneux  
Tel. : 01 30 05 05 05  
h9462@accor.com

## PROGRAMME 20 MARCH 2019

08:00	>	WELCOME COFFEE IN THE EXHIBITION HALL
<b>OPENING SESSION</b>		
08:30	>	<b>Welcome Introduction &amp; Opening Address</b> Jacques GRAIZON, President & Hervé GROS, Chief Executive, <i>Société des Ingénieurs de l'Automobile</i> Virginie HUGUON, Chairwoman of the Congress, <i>Groupe PSA</i>
08:45	>	<b>Round Table: Tomorrow's expectations</b> Moderator: Jean-Claude LE FLOUR, <i>Groupe Renault</i> with the participation of <i>Groupe Renault, Groupe PSA &amp; PFA</i>
09:15	>	<b>Keynote #1: How lightweight issues are a stake for train design?</b> Rim BEN TOUMI, <i>Alstom</i>
09:45	>	<b>Keynote #2: Materials and processes contribution in weight reduction for aeronautic equipments</b> Olivier DELCOURT, <i>Safran</i>
10:15	>	Exhibitors' short presentation
10:30	>	COFFEE BREAK IN THE EXHIBITION HALL
<b>TOMORROW'S SOLUTIONS FOR CAR BODY - METALLIC LIGHTWEIGHT SOLUTIONS PART 1</b> Chairman: Olivier REBUFFET, <i>Constellium</i>		
11:00	>	<b>BIW lightweighting through multi-material approach: the new challenge of electrification</b> Emmanuel LEROY, <i>Gestamp</i>
11:30	>	<b>Multidisciplinary Car Body Optimization for Balanced Design Weight, Cost and Vehicle Performance</b> Lars FREDERIKSON, <i>Altair Engineering</i>
12:00	>	<b>Latest 3<sup>rd</sup> gen AHSS and 2<sup>nd</sup> gen Press Hardened Steels: solutions to new automotive challenges including electrification and increased crash requirements</b> Henri GUYON, <i>ArcelorMittal</i>
12:30	>	LUNCH BREAK IN THE EXHIBITION HALL
<b>TOMORROW'S SOLUTIONS FOR CAR BODY - METALLIC LIGHTWEIGHT SOLUTIONS PART 2</b> Chairman: Philippe ANTOINE, <i>ArcelorMittal</i>		
14:00	>	<b>Automotive applications and associated technologies for steel and aluminium</b> Jean LAMONTANARA, <i>Magneto</i>
14:30	>	<b>Leveraging Advanced Inox Steel Grades and Multi-disciplinary Optimization Methods to Improve the Performances of Body in Whites</b> Jesse PAEGLE, <i>Aperam</i>
15:00	>	<b>Improvements in High Pressure Die casting for the automobile of the future: Solutions for lightweighting and electric vehicles</b> Dimitri GERMAIN, <i>GMD Eurocast</i>
15:30	>	COFFEE BREAK IN THE EXHIBITION HALL
<b>POLYMER LIGHTWEIGHT SOLUTIONS</b> Chairman: Jean-François PRAT, <i>PlasticOmnium Intelligent Exterior Systems</i>		
16:00	>	<b>New Mixed Mineral for Reinforced Thermoplastics</b> Joerg GARLINSKY, <i>BYK-Chemie</i>
16:30	>	<b>THERMOFIL HP – Pushing the Boundaries of High Performance Glass Coupled PP</b> Nicolas SCHLUTIG, <i>Sumika</i>
17:00	>	<b>Lightweight materials based on hollow glass spheres and carbon fibers</b> Philippe TONEGUZZO, <i>Groupe PLASTIVALOIRE</i>
17:30	>	<b>Dimensioning of short-fiber reinforced thermoplastics: from material characterization to prediction on parts</b> Boris PIQUET, <i>Hutchinson</i>
18:00	>	<b>Mineral Fiber Filled PC+ABS Blend Designed For Large Off-line Painted Exterior Components</b> Frank SCHUMANN, <i>Trinseo</i>
18:30	>	COCKTAIL IN THE EXHIBITION HALL
20:30	>	END OF THE FIRST DAY

## PROGRAMME 21 MARCH 2019

08:00 > WELCOME COFFEE IN THE EXHIBITION HALL

08:25 > **Opening Address**  
Laurence DUFRANCATEL, *Faurecia Systèmes d'Intérieur*

### ELECTRIFICATION IMPACT & SOLUTIONS Chairman: Jean-Claude LE FLOUR, Groupe Renault

08:30 > **Impact of battery pack integration on packaging and body architecture**  
Jacques MERCIER, Sébastien CHOPARD, *Groupe PSA*

09:00 > **Aluminium: the material of choice for electric vehicles**  
Hervé RIBES, Christian LANGE, *Constellium*

09:30 > **High performance, light and cost-effective battery packs thanks to Advanced High Strength Steel solutions**  
Mathieu AMBLARD, *ArcelorMittal*

10:00 > **Phenolic Resins that fulfill Electrified Vehicle requirements**  
Jean-Philippe SAUVAGET, *Hexion*

10:30 > COFFEE BREAK IN THE EXHIBITION HALL

### CHALLENGE OF ELECTRICAL VEHICLE DESIGN Chairwoman: Laurence DUFRANCATEL, Faurecia Systèmes d'Intérieur

11:00 > **Enabling mass reduction for automotive with industrial 3D printing**  
Yves FAURISSON, *AddUp*

11:30 > **EOS - technology and market leader for 3D printing solutions**  
Thomas WEITLANER, *EOS*

12:00 > **Design optimisation for additive manufacturing: reduce cost using lattice structures**  
Hélène SAPARDANIS, *Altair Engineering*

12:30 > LUNCH BREAK IN THE EXHIBITION HALL

### MULTIMATERIAL JOINING Chairman: Gérard LIRAUT, Groupe Renault

14:00 > **Multi-material assembly with carbon fiber (CFRP)**  
Arnaud GUG, *EJOT*

14:30 > **Advances in Adhesive Bonding Technology - Enabling Multi-material Joining and Automotive Lightweighting**  
Antonio PAGLIUCA, *3M*

15:00 > **High Performance and high reliability Die Attach Material for Automotive Powertrain, enhancing considerable weight improvement and better overall efficiency for HEV and EV's**  
Julien JOGUET, Cédric VASSEUR, *Alpha Assembly solutions & MacDermid*

15:30 > **New development in thermal assembly for composite parts**  
Richard TOMASI, *CETIM*

### CONCLUSION OF THE CONGRESS

16:00 > **Closing Remarks**  
Virginie HUGUON, Chairwoman of the Congress, *Groupe PSA*

FURTHER INFORMATION:



## EXHIBITION & ADVERTISING

This unique event will bring together more than 150 participants: directors, managers, heads of department, engineers, researchers and technicians. An exceptional line-up of guests and speakers will be present for the occasion.

The exhibition will allow you to show-case your company, present your latest products and create privileged contacts within this unique gathering of targeted decision-makers.

**Booths may be reserved for immediate entry. This offer is limited and it is highly recommended to book your booth space as early as possible.**

	BASIC	SHELL	BUSINESS	PREMIUM
<b>Rates € (Exc. French VAT of 20%)</b>	<b>3 400 €</b>	<b>4 500 €</b>	<b>7 200 €</b>	<b>12 000 €</b>
Fitted-out booth	6 sqm	9 sqm	12 sqm	18 sqm
Included badges	2	2	4	8
Logo on congress materials		x	x	x
Ad in book of conference			1/2	1
Ad in programme			1/2	1/2
Flyer insertion in conference bag				x
Extra badges discount *		-10%	-20%	-30%
Extra Square Meter		500 € per square meter		

\* As SMEs / Universities & Labs enjoy a lower entry rate, they cannot benefit from this extra discount



Rates € (Exc. French VAT of 20%)	BACK COVER	INSIDE	INSIDE FRONT COVER	INSIDE BACK COVER
Conference book (Distributed to all attendees)	1 300 €	950 €	1 100 €	1 100 €
Insertion of company booklet / goodies in the conference bags**			1 500 €	
Conference bag with your logo**			1 500 €	
Lanyards**			2 000 €	
Coffee Breack sponsoring ****			On request	
Lunch ****			On request	

\* Half Page

\*\* In 250 samples

\*\*\* Without booth package + advertising in the Congress Leaflet

\*\*\*\* Company name & Logo on the programme + your poster(s) next to the table(s) buffet



CONTACT : MOLLY BOISSIER // [molly.boissier@sia.fr](mailto:molly.boissier@sia.fr) // +33 1 41 44 93 74

# REGISTRATION FORM

International Conference and Exhibition // SIA MULTI-MATERIAL - 20/21 March 2019 // Ref: 2019-03

Please complete and return this form to:

SIA – 79, rue Jean-Jacques Rousseau – F-92158 Suresnes Cedex / Fax: +33 (0)1 41 44 93 79 / molly.boissier@sia.fr

 **REGISTRATION & ONLINE PAYMENT: [www.sia.fr](http://www.sia.fr)**

## PLEASE USE BLOCK CAPITALS

M<sup>rs</sup>  M<sup>r</sup>  D<sup>r</sup>  Dipl-Ing

Family Name: ..... First Name: .....

Company: ..... Internal address: .....

Position: .....

Address: .....

Postcode: ..... City: ..... Country: .....

Tel: ..... Mob: ..... Email: .....

VAT number: .....

## REGISTRATION FEES

- 1056 € VAT Incl.** (880 € VAT Excl.) - SIA Members
- 1188 € VAT Incl.** (990 € VAT Excl.) - Non Members
- 594 € VAT Incl.** (495 € VAT Excl.) - Co-authors, PhD Student, Researchers, Labs\* and Small Firms\* (< 100 employees)
- 594 € VAT Incl.** (495 € VAT Excl.) - Member of SIA Experts' Community Bureau
- FREE - Speaker, Steering Committee Member or Exhibitor**

\*Small firms, researchers and laboratories must not come under the control of big firms (> 100 employees).

\*\* 5+ registrations made in one transaction only. Please contact the SIA for a specific form.

**GROUP  
DISCOUNT\*\*  
-10%**

## PAYMENT Please precise the invoice address if different

Invoicing Address: .....

Postcode: ..... City: ..... Country: .....

VAT number: .....

- By check in Euros** made payable to: "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  
*Please, precise your company name and reference: 2019-03*

**By credit card:**       American Express       Diners       Visa       Eurocard Mastercard

I hereby authorise the organisers to charge my credit card to the amount of ..... €

On my Card n°: ..... Expiration date: ..... / .....

3 or 4 digit CVV or CVC number (on back or front of credit card): .....

Cardholder's name: .....

**Date and signature:**

**Company stamp:**

### REGISTRATION CONDITIONS

- Registration fees include participation in the conference, proceedings, refreshment breaks, lunches and the evening activities of 20 March.
- 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 to enter 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 where necessary.**
- In case of cancellation before 20 February, 2019, 30% of the registration fees will be retained. After this date, the entire registration fee will be retained. Registered participants not able to attend may nominate a substitute. Written notice must be provided.



TRINSEO™

# SOLUTIONS FOR TODAY'S AND FUTURE MOBILITY

Trinseo is a leading global materials provider and manufacturer of plastics, synthetic rubber, and latex. An innovation partner in the automotive industry.

We offer rigid and soft-touch plastics as well as technical services enabling lightweight and cost-efficient applications.

[trinseoautomotive.com](http://trinseoautomotive.com)