

➤ PROGRAMME



International Congress & Exhibition

# NeMMo 2022

## New Materials for future Mobility

BECOME  
AN EXHIBITOR!

More details  
on page 6

JULY 6 - 7, 2022

LA CITÉ DES CONGRÈS /  
NANTES

**NeMMo**  
New Materials for future Mobility



## EVERYTHING YOU WANT TO KNOW ABOUT MATERIALS FOR MOBILITY... AND BEYOND!



SIA and SFIP join forces to schedule a **NEW and ANNUAL international Congress named NeMMo – New Materials for Future Mobility.**

The main objectives of **NeMMo** are the following:

- > **Figure out** metallic & polymer-based solutions for lightweighting, safety and sustainability requirements,
- > **Address** sustainability and circular economy topics along the entire value chain,
- > **Highlight** innovative products, applications, and manufacturing achievements,
- > **Secure** electrified vehicles performance and competitiveness.

This congress will initiate a large debate between specialists from the **automotive world and material experts' communities**: metallic and plastic raw materials suppliers, tiers-N suppliers, plastics processors and converters, machine and tooling manufacturers, car manufacturers (OEM) & global mobility manufacturers (rail, aeronautics, nautical...), simulation softwares developers, multi-material assembly technologies providers, materials recyclers, academic research laboratories.

These two days of exchanges, meetings and conferences around an exhibition will allow to meet these expectations and imagine the future mobility.

With the support of:



## SCIENTIFIC COMMITTEE

Philippe ANTOINE, ARCELORMITTAL  
Gildas BUREAU, STELLANTIS  
Frédéric CHARON, SIA  
Amaury CORNILLEAU, GPA  
Laurence DUFRANCATEL, FORVIA  
Laurent GERVAT, GROUPE RENAULT  
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Hervé MOUSTY, CNEP  
Thierry ORSAT, MICHELIN  
Pierre PRONOST, PLASTIC OMNIUM  
Olivier REBUFFET, CONSTELLIUM



### LANGUAGE OF THE CONGRESS

Slides and conferences' language will be in english

## PROGRAMME NeMMo WEDNESDAY JULY 6, 2022

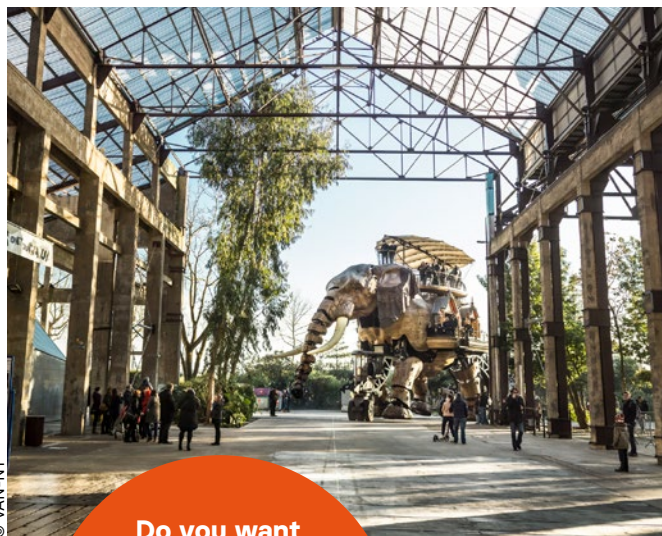
08:45	>	WELCOME COFFEE	
09:30	>	CONGRESS OPENING	
PLENNARY SESSION - Chairmen: Frédéric CHARON, SIA et Gérard LIRAUT, SFIP			
<b>Opening lecture:</b>			
09:45	>	How automotive retail will play a major role in future "Auto-mobility"? Christophe PINEAU, COSMOBILIS	
10:15	>	Challenges for metal & polymer for new mobility Gildas BUREAU, STELLANTIS & Gérard LIRAUT, RENAULT GROUP	
10:55	>	Presentation of exhibiting companies « 2 minutes/ 2 slides »	
11:30	>	COFFEE BREAK IN THE EXHIBITION	
		Chairpersons: Alain GIOCOSA, SFIP & Pierre PRONOST, PLASTIC OMNIUM	Chairpersons: Olivier REBUFFET, CONSTELLIUM & Gildas BUREAU, STELLANTIS
		<b>POLYMER SESSION</b> Polymer materials and their applications for a sustainable new mobility	<b>METAL SESSION</b> Metallic solutions for electric mobility
12:15	>	New polymers for e-mobility Guillaume BLANCARD, Laurent GERVAT, Lucas SANNIER, RENAULT GROUP	Advanced aluminium solutions make EV battery systems lighter, reduce cost of manufacturing and improve performance Mehdi BEN-TAHAR, Jocelyne LIST, CONSTELLIUM
12:40	>	Composites and sustainability - how to reduce the CO <sub>2</sub> footprint of composites and how to improve their recyclability? Thierry RENAULT, FORVIA	Cost-effective central underbody optimization for BEVs using new generations of steel grades Gilson DONYA, ARCELORMITTAL
13:05	>	LUNCH IN THE EXHIBITION	
		Polymer materials and their applications for a sustainable new mobility	Lightweight solutions for next vehicle generations
15:00	>	Material transition from Plastic Fuel & SCR Tanks to Electro Mobility. A Value Proposition for our Customers Bernd HOÉCKER, LYONDELLBASELL	Aluminium Top Hat for battery electric SUV Jean-Philippe MASSE, ALUMOBILITY
15:25	>	Ascend high damping solutions for NVH automotive applications Ould Mohamed Lemine YAHYA, Kai BECKER, ASCEND PERFORMANCE MATERIALS	Steel Tubular space frame for battery pack integration for small Passengers, Urban Delivery Vehicles and Pick Ups. Approach to the microfactory concept and solutions Pietro PERLO, Marco BIASIOTTO, I-FEVS & Jean LAMONTANARA, CLN-Group
15:50	>	Silicon based nanomaterials for materials and batteries Yohan OUDART, NANOMAKERS	Multi Part Integration a new approach for simplified and optimized body structures using breakthrough laser welded blanks & patch solutions Vincent BARELLI, Joel WILSIUS, ARCELORMITTAL
PLENNARY SESSION - Chairmen: Frédéric CHARON, SIA et Gérard LIRAUT, SFIP			
16:15	>	Next PhotoVoltaïc Low Carbon Module Generation for Solar mobility Aude DERRIER, CEA INES, Edouard PHILIPPE, ROCTOOL	
16:40	>	NETWORKING COFFEE BREAK IN THE EXHIBITION	
17:30	>	End of the 1 <sup>st</sup> day	
20:00	>	SOCIAL EVENT AT "LES MACHINES DE L'ILE" (more details on page 5)	

## PROGRAMME NeMMo THURSDAY JULY 7, 2022

08:00	> WELCOME COFFEE	
PLENNARY SESSION - Chairmen: Laurent GERVAT, GROUPE RENAULT et Laurence DUFRANCATEL, FORVIA		
<b>Opening lecture</b>		
08:30	> The Cassio Electric Hybrid Aircraft will remove the General Aviation from the environmental equation Jean BOTTI, VOLTAERO	
09:00	> How mechanical suppliers have adapted to the evolution of materials and surfaces for E-Mobility Vincent CAULET, Pierre-François CARDEY, Jean-Marc BELOT, CETIM	
09:25	> ERWin project insights Nicolas KOHOUT, IRT M2P & Maxime GROJEAN, GAMING ENGINEERING	
09:50	> COFFEE BREAK IN THE EXHIBITION	
Chairpersons: Amaury CORNILLEAU, GPA & Hervé MOUSTY, CNEP		Chairpersons: Philippe ANTOINE, ARCELORMITTAL & Virginie HUGUON, STELLANTIS
POLYMER SESSION Polymer materials for connected vehicles		METAL SESSION Sustainability in metallic design
10:35	> Polypropylene films and injection molding resins for In-Mold Structural Electronics (IMSE™) Eva GARCIA, REPSOL, Antti KERANEN, TACTOTEK	Low Carbon emissions steel as driver for decarbonized sustainable mobility Frédéric PAINCHAULT, ARCELORMITTAL
11:00	> The Sensity Tech, an innovative technology making materials speak Laetitia LAFFORGUE, TOUCH SENSITY	Tubular high strength Steel and die casted aluminum body structures, manufacturing comparison and impact of key success factors Pietro PERLO, I-FEVS & Jean LAMONTANARA, CLN-Group
11:25	> LUNCH IN THE EXHIBITION	
Polymer materials for EV battery packs		Joining solutions and modelization for lightweight design
13:00	> Novel plastic solutions for materializing the electric powertrain Thomas BAYERL & Denis BOUVIER, BASF	Screening of multi-material flow drill screwdriving assemblies and empirical modelling of their mechanical strength Romeu GOMES, IRT M2P
13:25	> Mitigating Battery Thermal Runaway with Material Solutions for Busbars Nicolas BATAILLEY, SOLVAY MATERIALS	New dissimilar welds by laser welding under vacuum process for e-mobility Morgane GEYER, Cyril ROUDEIX, Ludovic THIVILLON, VL INNOVATIONS
13:50	> Can PP be used for Lithium-Ion battery modules/packs? - Pushing the boundaries to make your EV lighter, safer, more sustainable and affordable Florian SCHUTZ, BOREALIS	Modeling and prediction of the differential expansion of a multi-material structure subjected to a heating process with automotive application Leandro Mauricio DA SILVA, Olivier PONTE-FELGUEIRAS, STELLANTIS
14:15	> Silicone Elastomers for Thermal Management in EV market - How to include weight reduction target in our developments? Laure BERTRAND, Lucile FAUVRE, ELKEM SILICONES	Benefits of the Parametric Optimization in the induction Heating process Nadine EL KOSSEIFI, Julien BARLIER, TRANSVALOR, Simon THIBAUT, NTN
14:40	> Use of Thermoplastics in EV Battery Packs as a Fire Event Countermeasure Strategy David PELLETIER, SABIC & Jonathan SALLE, CREPIM	New light form of aluminum for the industries: the aluminum foam Friedrich SCHULLER, HAVEL METAL FOAM
15:10	> COFFEE BREAK IN THE EXHIBITION	
PLENNARY SESSION - Laurent GERVAT, GROUPE RENAULT et Laurence DUFRANCATEL, FORVIA		
15:30	> Epoxy-vitrimer materials and composites François TOURNILHAC, CNRS-ESPCI Paris	
15:55	> Plastic metal hybrid cooling plate for improving battery management system Camille DE SOUZA, DUPONT	
16:20	> Congress closing	
16:35	> END OF THE CONGRESS	

## JOIN US FOR A SPECIAL SOCIAL EVENT AND GALA DINNER!

For this 1<sup>st</sup> edition of the NeMMo congress, we invite you to join us for an exceptional evening at the “Machines de l’île”!



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Do you want to be a sponsor for the gala dinner or cocktail? Please contact us to talk about it

Les “Machines de l’île” is a totally unprecedented project. A product of François Delaroziere and Pierre Orefice’s collective imagination, it is the only place where you’ll find Jules Verne’s “Invented Worlds,” the mechanical universe of Leonardo da Vinci, and Nantes’ industrial history, all on the exceptional site of the city’s former shipyards.

### On the agenda?

A Guided tour of the “Galerie des Machines”, a living space showcasing a veritable bestiary of machines.

Cocktail and Diner in the “Galerie des Machines”

**20h00:** Guided tour of the “Galeries des Machines”

**21h00:** Gala Diner



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© David Gallard\_LVAN

## ACCESS

### Les Machines de l’île

Parc des Chantiers  
Bd Léon Bureau  
44200 Nantes

📍 GPS : 47.206472 / -1.564297

### By tramway

Line 1 - “Chantiers Navals” station

### Car parks

- Pay parking lot Les Machines
- Paying place on Bd de la Prairie au Duc
- Free parking lot: Quai Wilson



[www.lesmachines-nantes.fr/en/practical/access](http://www.lesmachines-nantes.fr/en/practical/access)

## EXHIBITION & VISIBILITY

During these 2 days of congress, an exhibition will be held. Take advantage of this unique opportunity to meet automotive experts and showcase your newest products, services and innovations!

**Below are our offers to promote your company:**

### BOOK A BOOTH

	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
Dedicated space on the congress app	√	√	√	√
Logo on congress materials			√	√
Ad in digital book of conference			1	1
Ad in digital program			1/2	1/2
Advertising on the exhibitor's page (SIA's APP)				√
E-mail banner				
Preferential location in exhibition				
Announcement as major sponsor				
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.

### ADVERTISING // VISIBILITY

<b>Rates € (Exc. French VAT of 20%)</b>	BACK COVER	INSIDE	INSIDE FRONT COVER	INSIDE BACK COVER
Digital program	950 €	950 €	1 300 €	950 €
Printed Conference Book	1 300 €	950 €	1 300 €	950 €
Advertising on the app's homepage			1 500 €	
Advertising on the exhibitor's page			1 000 €	
Insertion of company booklet / goodies in the conference bags			1 500 €	
Lanyards			2 000 €	
Lunch, cocktail or Gala Dinner sponsoring*			On request	

\* Company name & logo on all congress material as sponsor + your poster(s) next to the table(s) buffet.

## VENUE

Located in the city centre, opposite the TGV train station (south exit) and just 20 min away from the airport, La Cité is very easy to reach.

**La Cité des Congrès  
de Nantes**  
5, rue de Valmy  
44000 Nantes



### **By Train**

The TGV train station is located in the city centre, opposite La Cité (South exit – 10 minutes walk).

### **By Plane**

Airport/city centre shuttle - « Lieu Unique » stop, departure every 20 minutes.

### **By public transport**

#### **Tramway**

Line 1 – « Duchesse Anne – Château des Ducs de Bretagne » station, just one stop from the TGV train station (north exit)

#### **Busway**

Line 4 – « Cité Internationale des Congrès » stop.

### **By car**

Nantes boasts an extensive network of roads to reach:

To the East: Paris – A1 motorway

To the South: Bordeaux and Toulouse – A83 motorway

To the West: Brest – N165/E60

To the North: Rennes – N137

#### **Car parks**

Parking Nantes cité des Congrès - EFFIA  
Avenue Jean claude Bonduelle, 44000 NANTES

[Book your parking place here](#)

Spaces available in real time (and other car parks):  
[clique here](#)

## ACCOMODATION

Book your hotel in Nantes  
directly on the dedicated  
platform



# REGISTRATION FORM

**International Congress and Exhibition NeMMo - July 6 & 7, 2022 - Ref: 2022-03**

*Please complete and return this form to:*

SIA - 79, rue Jean-Jacques Rousseau – F-92158 Suresnes Cedex / martin.pierrelee@sia.fr – Fax: +33 1 41 44 93 79

 Register directly on line: [www.sia.fr](http://www.sia.fr)

## IN BLOCK CAPITALS

M<sup>rs</sup>  M<sup>r</sup>

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

Company: ..... Department: .....

Position: .....

Address: .....

Post code: ..... City: ..... Country: .....

Tel ..... Mobile: ..... Email .....

VAT Number .....

## REGISTRATION FEES

- 1044 € TTC** (870 € HT) - SIA – SFIP members
- 1176 € TTC** (980 € HT) - Non members
- 720 € TTC** (600 € HT) - Co-authors\*, small firms (< 100 people\*\*), Univ-Labs, PhD student, Member of SIA Expert
- 0 €** - Speaker\*\*\*, Exhibitor, Steering Committee

> Group discount (≥ 3 pers). Contact [martin.pierrelee@sia.fr](mailto:martin.pierrelee@sia.fr)

\*2 co-authors max

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

\*\*\* Speaker (one by company by presentation)

- YES**, I attend the visit
- YES**, I attend the dinner

## PAYMENT Please precise the invoice address

Address .....

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

- 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: 2022-03**

**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 & signature:**

**Company stamp:**

## REGISTRATION CONDITIONS

- Registration fees include participation in the conference, abstracts book, refreshment breaks, lunches, visit and dinner on 06/07/2022. 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.
- Till June 6, 2022, you can cancel your registration in a written form. After this date, the entire registration will be retained. Registered participants not able to attend may nominate a substitute and inform us in a written form.
- Cancellation conditions (in addition to the GTC): in view of the current constraints linked to the COVID health crisis. If the congress has to be postponed or cancelled, you will be automatically reimbursed or offered a credit note for a future edition.