

➤ PROGRAMME

**SIA** SOCIÉTÉ DES  
INGÉNIEURS DE  
L'AUTOMOBILE

**sfi** Société Française  
des Ingénieurs  
des Plastiques

3<sup>RD</sup> EDITION

International Congress & Exhibition

# NeMMo 2024

## New Materials for future Mobility

Become  
an exhibitor!  
More details  
page 6

JULY 3 & 4, 2024

RENNES - FRANCE

**NeMMo**  
New Materials for future Mobility

**Ansys**

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**BASF**  
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## JOIN NEMMO 2024 AND SHARE YOUR EXPERT INSIGHTS ON NEW MATERIALS FOR MOBILITY

With the support of:



And the French Car Industry:



### LANGUAGE OF THE CONGRESS

Slides and conference's  
language will be in English.

Mobility has always evolved to connect new technologies with new societal demands. The current environmental concerns fuel a transformation as never before, with new modes of transport, new energies, new uses, new regulations, etc. Join NeMMo 2024, to make sure you are, or will be, ready to face these big challenges!

Co-organized by SIA & SFIP, NeMMo is back on **July 3 & 4, 2024** for two days of **discussions** and **conferences**, around an **exhibition**. It will allow to meet these expectations and imagine the future of mobility.

For its 3<sup>rd</sup> edition, NeMMo will be held in the magnificent, newly restored **Convent des Jacobins in Rennes**.

From materials to processes through engineering, NeMMo's Congress addresses the whole scope of solutions dedicated to the positive impacts of materials (**metals, polymers, minerals**) for a **sustainable, electrified, autonomous and connected mobility**.

This annual congress encourages exchange between mobility specialists and materials communities, including sustainability and circular economy topics, and showcases innovative products, applications and manufacturing achievements.

Be part of these challenges, let's meet at NeMMo 2024!

## SCIENTIFIC COMMITTEE

Philippe ANTOINE  
ARCELORMITTAL

Gildas BUREAU  
STELLANTIS

Frédéric CHARON  
SIA

Yvan CHASTEL  
GROUPE RENAULT

Amaury CORNILLEAU  
GPA

Jean-Yves DACLIN  
PLASTICS EUROPE

Laurence DUFRANCATEL  
FORVIA / MATERI'ACT

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CELANESE

Laurent GERVAT  
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Patricia KRAWCZAK  
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Pascal LAMESLE  
IRT M2P

Gérard LIRAUT  
GROUPE RENAULT

Thierry ORSAT  
MICHELIN

Pierre PRONOST  
OP MOBILITY

Olivier REBUFFET  
CONSTELLIUM



### ORGANISATION AND CONTACTS

**Speakers:** Pauline DESPORTES - SFIP // Tél. 33 6 37 53 52 68 // [pauline.desportes@sfip-plastic.org](mailto:pauline.desportes@sfip-plastic.org)

**Exhibition & sponsoring:** Martin PIERRELEE - SIA // Tél. +33 6 76 62 24 87 // [martin.pierrelee@sia.fr](mailto:martin.pierrelee@sia.fr)

## PROGRAMME NeMMo WEDNESDAY 3 JULY 2024

08:45 ➤ WELCOME COFFEE

09:20 ➤ WELCOME INTRODUCTION  
Chairpersons: SFIP & SIA

09:30 ➤ **Keynote** - Automotive regulatory developments & impact on materials  
Jean-François DEFER, Regulation & Homologation VP - **RENAULT GROUP**

10:00 ➤ **Keynote** - ID4 Mobility: Ecosystem & innovations projects for future mobility  
Vincent Chaillou - **ID4 Mobility**

10:30 ➤ **Presentation of exhibiting companies "2 minutes/ 2 slides"**

11:00 ➤ COFFEE BREAK

**SESSION MULTI-MATERIALS JOINING**  
Chairpersons: Luc MARBACH - SIA, Gérard LIRAUT - SFIP

11:45 ➤ Screening of automotive multi-material joining processes with aeronautical industry applications in view  
Romeu GOMES, Nicolas KOHOUT - **IRT M2P**

12:10 ➤ Sustainable approach to lightweight assembly for today's mobility demands  
Martin RHEME - **MM-WELDING**

12:35 ➤ Assembly of composite reinforcement in BiW  
Thierry RENAULT - **FORVIA**, Antoine DE FONTGALLAND - **IRT-JULES VERNE** & Marie AUGEREAU - **STELLANTIS**

13:00 ➤ LUNCH

**SESSION INTERIOR COMFORT**  
Chairpersons: Laurent Gervat - **RENAULT GROUP**  
Moez BEN AHMED - **GPA**

**SESSION METAL SUSTAINABILITY**  
Chairpersons: Yvan Chastel - **RENAULT GROUP**  
Philippe Antoine - **ARCELORMITTAL**

15:00 ➤ Why & how to substitute metal & rubber with innovative engineering polymers to improve better NVH performances of electrical vehicles?  
Laurent LEFEBVRE & Mattia SULMONI - **CELANESE**

Steel from thyssenkrupp Steel Europe - Sustainable in Production and Application  
Amalia KOLETTI - **THYSSENKRUPP STEEL EUROPE**

15:25 ➤ Thermoplastic elastomers, a more sustainable approach to anti-vibration components  
Kepa ZULUETA, Aizeti BURGOA - **LEARTIKER S. COOP.**  
Anas MUJTABA - **CELANESE**

Transforming vehicle manufacturing and contribution to simplification operations with cost and sustainable effective steel solutions for E Mobility  
Nabil MENEGADY & Dan HASENPOUTH - **ARCELORMITTAL**

15:50 ➤ New aesthetic and sustainable surfaces for future mobility interiors  
Christophe BRUNARD - **FORVIA**

Wrought aluminium is ready for automotive circularity  
Carla BARBATTI & Jocelyne LIST, *Fanny Mas* - **CONSTELLIUM**

16:15 ➤ Materials for Innovative Automotive Heating Solutions  
Guido ALESSI - **ALPER** & Andree MAINDOK - **CELANESE**

Metal Sustainability, two case studies: ongoing activities on secondary aluminium & perspectives; comparison between cold formed MS1500 and Hot formed Steel  
Jean LAMONTANARA - **MA GRUPPO CLN**

16:40 ➤ **Keynote** - Critical raw-materials in Automotive: regulations, supply-chain and sharing lesson learned on some strategic minerals  
Gaëtan LEFEBVRE - **OFREMI** & Gildas BUREAU - **STELLANTIS**

17:10 ➤ NETWORKING COFFEE IN THE EXHIBITION HALL

18:30 ➤ CITY TOUR FOLLOWED BY A COCKTAIL DINNER AT 20:00 PM



We create chemistry



# Go!Create

*welcome to #ourplasticsjourney*

## Make – Use – Recycle

At BASF, we believe in a sustainable future with plastics. We're working with customers and partners around the world to advance new technologies that enable design for circularity, reduce CO<sub>2</sub> emissions, and give plastic waste a new life. Together, we want to improve the ways plastics solutions to close the loop. **What are we waiting for? Let's make that journey go faster.**

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## PROGRAMME NeMMo THURSDAY 4 JULY 2024

08:30	➤	<b>WELCOME COFFEE</b>	
		<b>SESSION INNOVATIVE POLYMER SOLUTIONS</b> Chairpersons: Jean-Yves Frasson - CELANESE Maurice Carfantan - STELLANTIS	<b>SESSION BODY-IN-WHITE SOLUTIONS</b> Chairpersons: Gildas Bureau - STELLANTIS Olivier Rebuffet - CONSTELLIUM
09:00	➤	Long-term creep of a polyamide fuel tank subjected to hydrostatic pressure Laurent GERVAT, Pierre FURTWENGLER - RENAULT GROUP, Lucien LAIARINANDRASANA - MINES DE PARIS, Tom ENGELS, Bert KEESTRA - DSM	Metal additive manufacturing for body structure reinforcement Stéphane LOYER - STELLANTIS, Yannick VILLENEUVE - INSTITUT MAUPERTUIS & Philippe GELENNE - ESI GROUP
09:25	➤	New Generation High Pressure Vessels based on Thermoplastic Composite (Type IV-b) Mickaël DROZD & Jérémy VIALE - CETIM	Process/Product development of aluminium gigacasting parts for underbody Franck GATE - RENAULT GROUP
09:50	➤	Factors influencing impact performance of large thermoplastic-based exterior front panels Aurélie BERGERON - OP MOBILITY & Ronald VAN DER WALD - SABIC	Gigacasting usecases in vehicle body structure Valentin Zaccardo A2MAC1
10:15	➤	<b>COFFEE BREAK</b>	
		<b>SESSION NEW POLYMERS FOR ENVIRONMENT</b> Chairpersons: Laurence DUFRANCATEL - FORVIA/ MATERI'ACT	<b>SESSION METAL JOINING</b> Chairpersons: Thierry Orsat - MICHELIN Nathalie Bouad - SIA
11:00	➤	Innovative compounds for electronics (from 5G to conductivity) Fabien RESWEBER - MITSUBISHI CHEMICAL GROUP	Challenges and Opportunities of Aluminium Intensive Body-in-White, focus on material and joining selection Olivier REBUFFET & Sylvain BEUCHER - ALUMOBILITY
11:25	➤	Expand your ideas - Ultramid® Expand Polyamide based particle foam by BASF Patrick SPIES René HOLSCHUH - BASF SE	Advancing Sustainable Mobility: A Collaborative Project in High-Pressure Aluminum Die Castings for Shock Towers with ERWin Technology Caroline TANO - STELLANTIS, Nicolas KOHOUT - IRT M2P & Maxime GROJEAN - GAMING ENGINEERING
11:50	➤	Polyamide the material of choice for fuel cell cooling loop François POTIER - DOMO	Innovative approaches for multi material assemblies of Al alloys on steels David MERCS - LISI AUTOMOTIVE
12:15	➤	<b>LUNCH</b>	
		<b>SESSION NEW POLYMERS FOR ENVIRONMENT</b> Chairpersons: Laurence DUFRANCATEL - FORVIA/ MATERI'ACT & Pierre PRONOST OP MOBILITY	<b>SESSION ELECTRIFICATION</b> Chairpersons: Thierry Orsat - MICHELIN Nathalie Bouad - SIA
14:00	➤	Biobased and recycled raw materials in the formulation of elastomers Loïc PICARD - HUTCHINSON	Fire resistance performance of steel solutions for battery housing Tarek KRIM & Didier VERCHERE - ARCELORMITTAL
14:25	➤	VALEO Thermal Systems in automotive: "Evolution in plastic material choice integrating recycled and bio-sourced materials Alcina TANGHE & Peggy HAVET - VALEO THERMAL SYSTEMS	New Materials and components for e-Mobility Eric NIVET & Jeremy VIALE - CETIM
		<b>CLOSING SESSION</b> Chairpersons: SFIP & SIA	
14:55	➤	Driving Automotive Innovation and Sustainable Mobility Using Graphene Chirag RATWANI & Dexter JOHNSON - THE GRAPHENE COUNCIL	
15:20	➤	A comprehensive review of bio-inspired surface transfer technologies in mechanical metamaterials for transportation applications Abderrahmane AYADI - IMT NORD EUROPE	
15:45	➤	<b>CONCLUSION</b>	
16:00	➤	<b>END OF THE CONGRESS</b>	

**E-MOBILITY**

**DESIGN** WITH YOU  
**DEVELOP** WITH YOU  
**DELIVER** MATERIAL TO MAKE YOUR  
VISION A REALITY

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

17:15

### Start the evening by a cocktail in the exhibition

Want to enjoy all the exhibitors of the congress? On the 1<sup>st</sup> day, at the end of the conferences, join us for a dedicated time with the exhibitors before leaving for the visit & dinner.

18:30

### Come and discover the historic beauties of Rennes...

#### THE TOUR OF THE HISTORIC CENTRE

Are you ready to journey back in time?

From the ancient **Couvent des Jacobins** convent through the cobble lanes lined with colourful half-timbered houses, your walk will take you through several centuries. You will go through the Portes Mordelaises gate and its small castle with two towers, typical of medieval defensive estates, before reaching the **Town Hall (Place de la Mairie)**, its place and that of the Parlement of Brittany, which dates back to the era of Gabriel, architect to King Louis XV.

20:00

### ...Before enjoying a cocktail dinner Place de la Mairie

#### COCKTAIL DINNER AT THE "PICCADILLY" – PLACE DE LA MAIRIE

From the first rays of sunshine, the Picca's large terrace, in front of the gallery's arcades and facing the bustling square, is one of the most popular spots in Rennes.



#### PICCADILLY

Place de la Mairie  
35000 Rennes

The restaurant is at the corner with Rue de Coetquen.





## EXHIBITION & ADVERTISING

During the congress, an exhibition will be held.

All breaks will take place in the exhibition allowing attendees and exhibitors to exchange in a friendly atmosphere.

**In addition, we offer exhibitors the opportunity to make a speech in the plenary room before the break of the 1<sup>st</sup> day: "2min/2slides".**

### BOOK A BOOTH

	BASIC	SHELL	BUSINESS	PREMIUM	EXCLUSIVE	ELITE
<b>Rates € (Exc. French VAT of 20%)</b>	<b>3 400 €</b>	<b>4 500 €</b>	<b>7 200 €</b>	<b>12 000 €</b>	<b>16 600 €</b>	<b>24 200 €</b>
Fitted-out booth	6 sqm	9 sqm	12 sqm	18 sqm	24 sqm	30 sqm
Included badges	2	2	4	8	10	12
Dedicated space on the congress app	✓	✓	✓	✓	✓	✓
Logo on congress materials			✓	✓	✓	✓
Ad in digital book of conference			1	1	1	1
Ad in digital program			1/2	1/2	1	1
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%	-40%	-40%
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 €
Digital Conference book	950 €	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.



# REGISTRATION FORM

International Congress and Exhibition NeMMo - July 3 & 4, 2024 - Ref: 2024-02

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

## IN BLOCK CAPITALS

Mrs ☐ Mr ☐

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

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

Position: .....

Address: .....

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

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

VAT Number .....

## REGISTRATION FEES

- ☐ **1 176 € TTC** (980 € HT) - SIA – SFIP members  
☐ **1 308 € TTC** (1090 € HT) - Non members  
☐ **720 € TTC** (670 € HT) - Co-authors\*, small firms (< 100 people\*\*), Univ-Labs, PhD student, Member of SIA Expert  
☐ **0 €** - Speaker\*\*\*, Exhibitor, Steering Committee  
☐ **0 €** - Package prime SFIP

\*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)

## SOCIAL EVENT

- ☐ YES, I would like to attend the Guided City Tour – included in the registration fee  
☐ YES, I would like to attend the Cocktail Dinner – included in the registration fee

I have food intolerances (please specify): .....

## PAYMENT Please precise the invoice address

Address .....

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

- ☐ By check in Euros made payable to: "Société des Ingénieurs de l'Automobile"  
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**Please, precise your company name and reference: 2024-02**

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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) .....

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## REGISTRATION CONDITIONS

- Registration fees include participation in the conference, abstracts book, refreshment breaks, lunches, visit and dinner on 03/07/2024. 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 charges will apply as follows: Up to 4 weeks before the event starts = 30% of the registration fees plus any bank transfer fee incurred by SIA / Less than 4 weeks before the event starts = without refund but you can nominate a substitute.
- Please check the GTC on the SIA website: [https://www.sia.fr/medias/files/Evenements/sia\\_cgv\\_2020/siaevents\\_terms\\_and\\_conditions\\_2020.pdf](https://www.sia.fr/medias/files/Evenements/sia_cgv_2020/siaevents_terms_and_conditions_2020.pdf)



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## CONGRESS VENUE

### LE COUVENT DES JACOBINS

CENTRE  
DES CONGRÈS  
DE RENNES  
MÉTROPOLE



### Le Couvent des Jacobins

Centre des Congrès de Rennes Métropole  
20, Place Sainte-Anne  
35000 Rennes

## ACCESS



### By train & Metro

**Rennes Train station**, the Couvent des Jacobins is a 27 mn walk away.

From the train station you can also take the metro line A and stop at **Sainte Anne station**.

*Please note that, on the 3<sup>rd</sup> of July, the first train from Paris arrives at 8:15 am should you wish to arrive the day of the event make sure to book your ticket well in advance.*



### By car

**High speed motorways A81.**



Pay parking near the congress centre: **Parking HOCHÉ**

Place Hoche, 35000 Rennes

Access map: <https://www.c-park.fr/parking/parking-hoche>



### By plane

**1 hour from Paris CDG**

Daily direct flights from the major cities of France and Europe.

### Direct flights

1 hour 30 minutes from many major European cities.

A shuttle service connects the airport and the city centre.

## ACCOMODATION

Book your hotel in  
Rennes directly on the  
dedicated platform:



- IDEAL ACCESS**
- Direct flight s from Rennes
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  - ..... Ferry crossings

