

➤ PROGRAMME

SIA SOCIÉTÉ DES
INGÉNIEURS DE
L'AUTOMOBILE

sfi Société Française
des Ingénieurs
des Plastiques

NEW EDITION

International Congress & Exhibition

NeMMo 2023

New Materials for future Mobility

MAY 10 & 11, 2023

LA CITÉ DES CONGRÈS
NANTES

NeMMo
New Materials for future Mobility

BASF
We create chemistry

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We create chemistry

Drive forward. Together.

Discover innovative solutions for electric vehicles that enable future battery technologies. Visit our booth and get a quick overview with our interactive battery exhibition tool.

www.automotive.basf.com



WELCOME TO THE 2023 EDITION OF NEMMO CONGRESS ON NEW MATERIALS FOR MOBILITY



Co-organized by SIA & SFIP, NeMMo is back in Nantes in 2023 for two days of **congress** and **exhibition** focused on New Materials for Mobility.

With the support of:



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.

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
Laurent GERVAT, GROUPE RENAULT
Alain GIOCOSA, SFIP
Virginie HUGUON, STELLANTIS
Maxime KOWALSKI, IRT M2P
Patricia KRAWCZAK, IMT NORD EUROPE, Institut Mines-Télécom
Gérard LIRAUT, GROUPE RENAULT
Thierry ORSAT, MICHELIN
Nathalie PÉCOUL, ARAYMOND
Pierre PRONOST, PLASTIC OMNIUM
Olivier REBUFFET, CONSTELLUM



LANGUAGE OF THE CONGRESS

Slides and conference's language will be in english.



ORGANISATION AND CONTACTS

Speakers: Molly BOISSIER - SFIP // Tél. +33 1 46 53 10 74 // contact@sfip-plastic.org

Exhibition & sponsoring: Martin PIERRELEE - SIA // Tél. +33 6 76 62 24 87 // martin.pierrelee@sia.fr

10-11 May, 2023 | Nantes, France

Meet us at NeMMo 2023

Join us in Nantes to discover how our leading-edge polyolefins make a wide range of exterior, interior, and e-Powertrain & UTB applications more sustainable!

VISIT US | STAND 14

PROGRAMME NeMMo WEDNESDAY 10 MAY

08:45 ➤ WELCOME COFFEE

09:30 ➤ CONGRESS OPENING

PLENNARY SESSION

Chairpersons: Frédéric CHARON - SIA, Gérard LIRAUT - SFIP

09:40 ➤ **KEYNOTE SPEECH - Eco-system of the low environmental footprint vehicle**
Gildas BUREAU - PFA

10:10 ➤ Can Europe source and process home the materials needed for Future Mobility?
• Materials for sustainable electrification: needs and action
• Actual case: Imerys's battery materials
Frédéric JOUFFRET - IMERYS & Michel COSTES - INOVEV

10:35 ➤ Presentation of exhibiting companies « 2 minutes/ 2 slides »

11:15 ➤ COFFEE BREAK IN THE EXHIBITION

SESSION POLYMER CONNECTED CARS
Chairpersons: Maxime KOWALSKI - IRT M2P,
Pierre PRONOST - PLASTIC OMNIUM

SESSION FUEL CELLS / HYDROGEN TANKS
Chairpersons: Philippe ANTOINE - ARCELORMITTAL,
Thierry ORSAT - MICHELIN

12:00 ➤ Future Connectivity in Automotive
François NAUDIN & Otmar BADE - CELANESE

Simulation-based evaluation of manufacturing process on the performance of composite pressure vessels
Oxana SHISHKINA, Laszlo FARKAS - SIEMENS INDUSTRY SOFTWARE NV

12:25 ➤ Influences of the radar properties of automotive plastic parts
Bruno VIALA - LYONDELLBASELL, Tobias CALLIES - PERISENS

Challenges on Materials for Hydrogen in Land Mobility
Jeremy VIALE, Clément CALLENS - CETIM

12:50 ➤ Enhanced radar performance of exterior trim – Effect of design, composition and use of mechanical recycle
Carlos PEREIRA - SABIC

Design of hydrogen tank with improved sustainability
Nicolas DUFAURE - ARKEMA

13:15 ➤ LUNCH

15:00 ➤ **PANEL DISCUSSION – MATERIALS CIRCULARITY: WHICH IMPACT ON FORMULATION AND DESIGN?**
Moderator Frédéric CHARON - SIA
Katell LOISEL - BASF, Hosen SULAIMAN - FORVIA, Philippe ROLLAND - GROUPE RENAULT, Thomas MÜLLER - SSAB, Laurent BARRE - VALEO

16:15 ➤ COFFEE BREAK IN THE EXHIBITION

PLENNARY SESSION

Chairpersons: Frédéric CHARON - SIA, Gérard LIRAUT - SFIP

17:00 ➤ How to design a representative tire abrasion rate on-vehicle test method
Frédéric BIESSE - MICHELIN

17:25 ➤ Sustainability and circular mobility with Materi'Act, what's next?
Xavier PAILLOUX, Pierre DEMORTAIN - MATERIACT

17:50 ➤ **Networking coffee in the exhibition**

19:30 ➤ Visit & Gala dinner at the "Château des ducs de Bretagne" (More Details on previous page)

PROGRAMME NeMMo THURSDAY 11 MAY

| | | | |
|-------|---|---|--|
| 08:15 | ➤ | WELCOME COFFEE | |
| | | PLENNARY SESSION Chairpersons: Frédéric CHARON - SIA, Laurent GERVAT - GROUPE RENAULT | |
| 08:30 | ➤ | KEYNOTE SPEECH - Challenges of using new materials and processes for next generation trains Tanguy CHOUPIN, Karim SLIMANI - SNCF - French Railway Operator | |
| 09:00 | ➤ | Microscopic investigation of the slurry drying process and binder migration in Li-ion battery anodes using multiscale-simulation methods Sowmya INDRAKUMAR, Jan-Willem HANDGRAAF - SIEMENS INDUSTRY SOFTWARE NETHERLANDS B.V Larisa Von RIEWEL - HERAEUS NOBLELIGHT | |
| 09:25 | ➤ | COFFEE BREAK IN THE EXHIBITION | |
| | | SESSION POLYMER ELECTRIC VEHICLES Chairpersons: Alain GIOCOSA - SFIP, Pierre PRONOST - PLASTIC OMNIUM | SESSION METAL SUSTAINABILITY Chairpersons: Philippe ANTOINE - ARCELORMITTAL, Gildas BUREAU - STELLANTIS |
| 10:10 | ➤ | Taking the next step to electrify mobility with polycarbonates Jean-Claude CLERGUE - COVESTRO, Constantin SCHWECKE - COVESTRO DEUTSCHLAND AG | Low CO ₂ painting process : Impact on Materials and Body Design Matthieu BARBIER, Raynald BOUGNOT - STELLANTIS |
| 10:35 | ➤ | New Materials for Battery Thermal Management Chokri BEN HAMMOUDA, Sophie MERLANT, Matthias BENDER - BASF | Benefits and challenges of implementing a closed-loop system for the production of Aluminium automotive panels at Douai Renault plant Patrice BELLARD - RENAULT GROUP, Mary-Anne KULAS - CONSTELLIUM NEUF-BRISACH |
| | | SESSION POLYMER SUSTAINABLE DEVELOPMENTS: LIGHTENING AND DECARBONISATION | SESSION METAL SUSTAINABILITY |
| 11:00 | ➤ | A new mineral solution for polypropylene automotive lightweighting application Gildas LEBRUN, Gilles MELI - IMERYS | Nordic Transformation for Fossil-Free Steel Production Svante FÄLT, Thomas MÜLLER - SSAB |
| 11:25 | ➤ | Mycelium, mushrooms as structural material Juan Antonio RUIZ GONZALEZ, Raúl GALLEGO CASTRO, Luis Miguel DE JUAN SAIZ - ANTOLIN | Aluminum in automotive, innovation and sustainability Michele Maria TEDESCO, Gildas BUREAU - STELLANTIS |
| 11:50 | ➤ | LUNCH | |
| | | SESSION POLYMER SUSTAINABLE DEVELOPMENTS: LIGHTENING AND DECARBONISATION Chairpersons: Amaury CORNILLEAU - GPA, Gérard LIRAUT - GROUPE RENAULT | SESSION METAL STRUCTURAL SOLUTIONS & JOINING Chairpersons: Patrice BELLARD - GROUPE RENAULT, Olivier REBUFFET - CONSTELLIUM |
| 13:35 | ➤ | Composite Material for Automotive Mass Production Applications Guillaume GARDERE - VALEO THERMAL SYSTEMS - THERMAL FRONT END | Press hardening steels and ArcelorMittal's Multi Part Integration®: the best solutions for a sustainable body-in-white part integration strategy Jérôme FAVERO, Julio RIVERA, Joël WILSIUS, Nicolas SCHNEIDER - ARCELORMITTAL |
| 14:00 | ➤ | Sustainable materials for automotive exterior parts & panels Nicolas CHEVALLIER - PLASTIC OMNIUM | Modular & Scalable Smart Steel Battery Housing for HV-Battery system for harsh environment Emmanuel TRON, Jean-Claude LABROSSE - FORSEPOWER & Jimmy LAM, Dan HASENPOUTH - ARCELORMITTAL |
| 14:25 | ➤ | Renault MEGANE e-Tech tailgate in lightweight plastic construction with visible surface Benoît PESCHE - CELANESE & Raphaël VOLLET-BINET - GROUPE RENAULT | Friction & resistance element welding in lightweight automotive manufacture Emanuel HEINLE, Vitalij JANZEN, Matthias BERJAMIN - ARNOLD UMFORMTECHNIK |
| 14:50 | ➤ | Development of thermoplastic composites with high recycled content for semi-structural applications Thierry RENAULT - FORVIA | Steel/Al alloys and Steel/composites multi material assembly solutions with optimized mechanical properties David MERCS, Pauline LACOM, Vincent DEMANGE - LISI Automotive |
| 15:15 | ➤ | COFFEE BREAK IN THE EXHIBITION | |
| 15:35 | ➤ | From Smart Material Databases to Uncertainty Quantification based Design Validation for Automotive Applications of Plastics Materials Moncef SALMI - HEXAGON MANUFACTURING INTELLIGENCE | |
| 16:00 | ➤ | What are the new opportunities with adhesive tape in future mobility? Théophile BONTE & Arnaud FUSELLIER - TESA | |
| 16:25 | ➤ | CONCLUSION OF THE CONGRESS | |
| 16:30 | ➤ | End of the congress | |

WE KEEP STRONG. EVEN UNDER PRESSURE.



We are dedicated to reducing CO₂ emissions and delivering sustainable composite solutions. This together with our extensive expertise in epoxy chemistry makes us your strong partner.

JOIN US FOR A SPECIAL SOCIAL EVENT AND GALA DINNER!

Start the evening by a cocktail in the exhibition at 18:00

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

Come and discover the historic beauties of Nantes at 19:30

Set in the historic heart of Nantes, the Château des ducs de Bretagne is the city's most important historic building, along with the Cathedral St. Pierre.

Last castle on the banks of the Loire before the ocean, this Breton monument with its remarkable buildings dating from the 15th to the 18th century the magic of a true journey to the heart of history.

On the agenda?

Guided tour of the Museum of the Château des ducs de Bretagne starting at 19:30.

Dinner in the "Harnachement" building at 20:00.



© Philippe Piron/LVAN



© Jean-Dominique Billaud/LVAN

Château des ducs de Bretagne Musée d'histoire de Nantes

4 place Marc Elder
44000 Nantes

ACCESS



Tramway

Line 1: stop Duchesse Anne (access to the Pont dormant).



Bus

Line 4: stop Duchesse Anne.
10 minutes walk from Nantes train station



Car parks in the city center

Cathédrale, Moulin-Mairie, Baco, Feydeau,
Cité internationale des Congrès...

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 1st day: "2min/2slides".

COME & MEET OUR EXHIBITORS!

There are still stands available, don't miss this unique opportunity to develop your network and your business!

BASF
We create chemistry

BOREALIS
Keep Discovering

Celanese

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EXOTEST
LABORATOIRES EXOTEST - TESTING LABORATORY

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MATERIACT

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sabic

SSAB

tesa

ADVERTISING // VISIBILITY

| Rates € (Exc. French VAT of 20%) | 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.



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 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](#)



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.

Spaces available
in real time (and
other car parks):



ACCOMODATION

Book your hotel in
Nantes directly on the
dedicated platform:



REGISTRATION FORM

International Congress and Exhibition NeMMo - May 10 & 11, 2023 - Ref: 2023-02

Register directly on line: www.sia.fr

IN BLOCK CAPITALS

M^{rs} ☐ M^r ☐

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
☐ **0 €** - Package prime SFIP

*2 co-authors max

** Les PME & laboratoires ne doivent pas être sous le contrôle de grandes entreprises de plus de 100 employés / 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 dinner**

PAYMENT Please precise the invoice address

Address

Post code City 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)

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Please, precise your company name and reference: 2023-02

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

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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)

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 10/05/2023. 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.
- 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.

**SAVE THE
DATE!**

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COLORS, MATERIALS & FINISHES

International Congress & Exhibition

4 & 5 OCTOBER 2023

CENTRE DE CONGRÈS DE L'AUBE – TROYES



Programme & Registration :
www.sia.fr • www.sfip-plastic.org

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With the support of the French Car Industry:

