

# SMART POLYMERS

10TH EDITION

# SMART POLYMERS CONGRESS

MARCH 25th 2025, Paris

Organized by:



Sponsored by:



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**Polymeris, Competitiveness Cluster for Rubbers, Plastics & Composites, promotes the emergence of structuring projects through collaborative actions between industrial and academic partners.**

**This ambition requires crossovers and technological synergies to position Rubbers, Plastics and Composites as drivers of economic and environmental transitions.**

**Structural electronics is at the crossroads of the Strategic Action Areas of functionalized products and the industry of the futur. Polymeris implements various actions :**

- **Animation of an industrial club "Smart Plastics/Structural Electronics"**
- **Chair of the IPC International Committee for Standardization of Plastronic Products**
- **Setting up and supporting collaborative projects, for example the REALITE project on a Quality Reference Document for Smart Polymers**
- **Organization of events dedicated to plastronics**
- **Technology watch**

**Whether at the regional, national or international level, Polymeris supports you in your innovation process. Please contact us at the following contact details :**

## ***COME MEET US***



**Thibaut  
LEFORT**

Nouvelle-Aquitaine  
Innovation manager  
[thibaut.lefort@polymeris.fr](mailto:thibaut.lefort@polymeris.fr)  
+33 (0)7 72 32 41 62



**Adèle  
SEGUIN**

Polytronics Hub and  
European services officer  
[polytronics@polymeris.fr](mailto:polytronics@polymeris.fr)  
+33 (0)6 42 14 02 34



**Adèle  
MAILLARD**

Interclustering  
Project Manager  
[adele.maillard@polymeris.fr](mailto:adele.maillard@polymeris.fr)  
+33 (0)7 86 46 68 94



collaboration is the driver

NextMove leads and represents the French "Mobility Valley", one of Europe's leading Automotive & Mobility innovation ecosystems, covering the entire value chain where sustainable mobility solutions are invented, developed, tested and industrialized. From research to industry and services, NextMove federates the main players in Normandy & Paris regions to boost their competitiveness and provide support for transitions.

## **COME MEET US**



**Geoffroy  
MARTIN**

Mobilities  
Director

[geoffroy.martin@nextmove.fr](mailto:geoffroy.martin@nextmove.fr)

+33 (0)6 46 03 69 63



**Camille  
BERTRAND**

Communications  
and events manager

[camille.bertrand@nextmove.fr](mailto:camille.bertrand@nextmove.fr)



**Solène  
MAREK**

European  
Projects Manager

[solene.marek@nextmove.fr](mailto:solene.marek@nextmove.fr)

# MARCH 25TH, 2025

- 9:00 AM**      **Introduction**
- 9:35 AM**      **Keynote "Smart Polymers in Action: Functionalization Strategies and Challenges for Sustainable Mobility"**  
Lionel TENCHINE, IPC Technical Center
- 10:00 AM**      **Conference "Functionalizing plastic: get more by innovative tool microstructuring"**  
Raúl GARCÍA, Microrelleus SL
- 10:25 AM**      **Conference "A unique process for forming IME parts or functional films: PLASTITRONIC® technology"**  
Vincent DONIER, PLASTIFORM
- 10:50 AM**      **Coffee break**
- 11:20 AM**      **Conference "Printed thermoelectric devices for energy harvesting"**  
Giorgio MATTANA, PRINT'UP INSTITUTE
- 11:45 AM**      **Conference "Plastronic Functionalization of 3D-Printed Composite Parts with Strain Gauges"**  
Dimitri GERGIL, Laboratoire Ampère
- 12:10 PM**      **Conference "Printed Temperature Sensors for Smart Components in Automotive Applications"**  
Tiziano FAPANNI, University of Brescia and Edoardo CANTÙ, INXENSE SRL

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# MARCH 25TH, 2025

## 12:35 PM PITCHES SESSION

1. QUALISTEO, Yann ANDRIEUX
2. POLYTRONICS, Adèle SEGUIN
3. **"Warnfeet, a battery-free connected insole for monitoring the risk of diabetic foot ulcers"** SOLECOOLER, Bruno AUBERT
4. **"Sensors and communications: boost your Smart Polymers with the expertise of a Technology Resource Centre"**  
CRESITT Industrie, Elisabeth PATOUILLARD
5. **"Sustainable PLA-based Piezoelectric Transducers"**  
IMT NORD EUROPE, Cédric SAMUEL
6. HEATSELF, Philippe PAUL BERT

## 1:00 PM Lunch break

## 2:15 PM Round Table "Smart Polymers: Unlocking Challenges and Opportunities for Sustainable Mobility"

Lara JABBOUR, CEA | Hafid EL-IDRISSI, VALEO | Jorge Felipe CARVALHO, STELLANTIS and Geoffroy MARTIN, NEXTMOVE

## 3:05 PM Coffee break

## 3:35 PM Conference "In-Mold Structural Electronics (IMSE™) and automotive applications" Paavo NISKALA, TactoTek

## 4:00 PM Conference "Smart surfaces - IMSE® is elevating CMF to the next level – the perfect marriage between the worlds of electronics and plastics." Romuald MUCKLI, ALBIS Distribution

## 4:25 PM Conference "State of the Art in Standardization of Smart Polymer Technologies" Francisco FOURCADE, IPC International

## 4:50 PM Conclusion

# SPEAKERS CONFERENCES



**Lionel TENCHINE**

IPC  
R&D Program Manager  
[www.ct-ipc.com](http://www.ct-ipc.com)



**Raúl GARCÍA**

MICRORELLEUS SL  
CEO  
[www.microrelleus.com](http://www.microrelleus.com)

**microrelleus**



**Vincent DONIER**

PLASTIFORM  
Director of Innovation and CSR  
[www.plastiform-france.com](http://www.plastiform-france.com)



**Giorgio MATTANA**

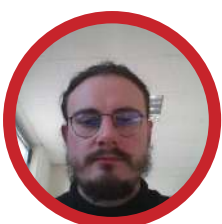
PRINT'UP INSTITUTE  
Professor  
[www.printupinstitute.fr](http://www.printupinstitute.fr)

**PRINT'UP**  
INSTITUTE



**Dimitri GERDIL**

LABORATOIRE AMPÈRE  
Ph. D Student in Plastronics  
[www.ampere-lab.fr](http://www.ampere-lab.fr)



**Tiziano FAPANNI**

UNIVERSITY OF BRESCIA  
Researcher  
[www.unibs.it](http://www.unibs.it)



UNIVERSITÀ  
DEGLI STUDI  
DI BRESCIA

# SPEAKERS CONFERENCES



**Edoardo CANTÚ**

INXENSE

CEO

[www.inxense.it](http://www.inxense.it)



**Paavo Niskala**

TACTOTEK

SVP IMSE Technology

[www.tactotek.com](http://www.tactotek.com)



**Romuald MUCKLI**

ALBIS DISTRIBUTION

Business Development Manager

[www.albis.com](http://www.albis.com)



**Francisco FOURCADE**

IPC INTERNATIONAL

Electronics Technology Standard Manager

[www.ipc.org](http://www.ipc.org)



**Thibaut LEFORT**

POLYMERIS

Nouvelle-Aquitaine Innovation manager

[www.polymeris.fr](http://www.polymeris.fr)





# ROUND TABLE



**Geoffroy MARTIN**

NEXTMOVE

Mobility director

[www.nextmove.fr](http://www.nextmove.fr)



**Jorge Felipe CARVALHO**

STELLANTIS

Global Mechatronic expert HMI commands

[www.stellantis.com](http://www.stellantis.com)



**Lara JABBOUR**

CEA LITEN

Head of Laboratory - Printed and Hybrid electronics

[www.liten.cea.fr](http://www.liten.cea.fr)



**Hafid EL-IDRISSI**

VALEO LIGHT

R&I System & Architecture Dpt Manager

[www.valeo.com](http://www.valeo.com)



# PITCHS



**Yann ANDRIEUX**

QUALISTEO

Sales and Marketing Director

[www.qualisteo.com](http://www.qualisteo.com)



**Adèle SEGUIN**

POLYMERIS

Polytronics Hub and European services officer

[www.polymeris.fr](http://www.polymeris.fr)



**Bruno AUBERT**

SOLECOOLER

CEO

[www.solecooler.com](http://www.solecooler.com)



**Elisabeth PATOILLARD**

CRESITT INDUSTRIE

Director

[www.cresitt.com](http://www.cresitt.com)



**Cédric SAMUEL**

IMT NORD EUROPE

Assistant professor

[www.imt-nord-europe.fr](http://www.imt-nord-europe.fr)



**Philippe PAUL BERT**

HEATSELF

CEO

[www.cresitt.com](http://www.cresitt.com)



# MAXIMIZE YOUR NETWORKING JOIN THE B2B MEETINGS!

Take advantage of the online B2B meetings available to all speakers and participants on **March 26, 27, and 28!** This is a great opportunity to connect with potential partners, explore new collaborations, and expand your professional network.

## HOW TO PARTICIPATE IN THE B2B MATCHMAKING?

To schedule meetings, you first need to set your availability on the B2match platform. Without availability, you won't be able to send or receive meeting requests.

## HOW TO SET YOUR AVAILABILITY?

- **From the Meetings Page:** Click on the 4 dots in the navigation bar, go to Meetings, then Availability (top right). Toggle availability on, select your dates, and Save.
- **From Your Dashboard:** Click your avatar, go to Book meetings, then My availability.

## MORE WAYS TO ENHANCE YOUR B2B EXPERIENCE

- 💡 **Find a meeting partner:** Search the participant list to identify potential contacts.
- 📅 **Request a meeting:** Send meeting requests to interesting participants and accept incoming invitations.
- 🎧 **Check your camera & microphone:** Test your settings before meetings to ensure smooth communication.
- 🕒 **Reschedule a meeting:** If needed, modify your meeting time within the platform.
- ★ **Rate past meetings:** Give feedback on your meetings to improve the experience.
- 💬 **Start a new conversation:** Use the chat function to connect before and after scheduled meetings.
- ⚠️ **If your meeting partner doesn't show up:** Report the issue and try to reschedule.

For more information, click [here](#).

## DON'T MISS THIS OPPORTUNITY

**Set your availability today and start booking your B2B meetings!**



IPC is a global trade association dedicated to furthering the competitive excellence and financial success of its members, who are participants in the electronics industry.

In pursuit of these objectives, IPC will devote resources to management improvement and technology enhancement programs, the creation of relevant standards, protection of the environment, and pertinent government relations. IPC encourages the active participation of all its members in these activities and commits to full cooperation with all related organizations.



**Francisco FOURCADE**

IPC INTERNATIONAL  
Electronics Technology  
Standard Manager  
[franciscofourcade@ipc.org](mailto:franciscofourcade@ipc.org)

**[WWW.IPC.ORG](http://WWW.IPC.ORG)**



Qualisteo is an eco-innovative start-up founded in Nice in 2010, and winner of over 20 awards, including the European Innovation Prize and the Smart Grid France Prize.

An archetype of the French innovation system, the company has developed a radically innovative technology "100% made in France", deployed in over 50 countries, with major manufacturers and players in the plastics industry.

In addition to its rapidly expanding core business, the company has implemented an innovation strategy which, since 2020, has been recognized as one of the most advanced technological solutions making it possible to meet the challenges of the 21st century by the Solar Impulse.

Foundation and an active member of French Tech 2030.



**Yann ANDRIEUX**

QUALISTEO  
Sales and Marketing  
Director  
[yann.andrieux@qualisteo.com](mailto:yann.andrieux@qualisteo.com)

**[WWW.QUALISTEO.COM](http://WWW.QUALISTEO.COM)**

# ASSOCIATED PROJECTS



## POLYTRONICS PROJECT

The POLYTRONICS project is part of the European "Digitizing European Industry" program. An EDIH (European Digital Innovation Hub) is a group of players whose aim is to create a one-stop shop, either physical or virtual, connecting companies in their territories to the resources and ecosystems they need to succeed in their digital transformation.

The aim of Polytronics is **to support polymer materials companies (plastics, textiles, composites and rubbers) in their digital transformation thanks to artificial intelligence (AI)**. These improvements will involve two areas of innovation:

- **Product innovation:** Design and development of innovative, more intelligent polymer products, with new functionalities such as printed electronics.
- **Process innovation:** Using AI to improve manufacturing processes, to better manage energy and resources, but also to increase product quality and reduce reject rates.

POLYTRONICS' fields of application include plastics, composites, rubber and technical textiles. develop, test and deliver courses. "Green" skills are the focus of the CIRCVET project.

[www.polytronics.eu](http://www.polytronics.eu)



## AI REDGIO 5.0 PROJECT

The AI REDGIO 5.0 project is funded by the Horizon Europe program. It continues and deepens the alliance between European vanguard regions and digital innovation centers, taking into account the results of the European AI REGIO project and implementing a competitive digital transformation through Artificial Intelligence in European small and medium-sized manufacturing companies.

The aim of this project is **to promote the adoption of Artificial Intelligence (AI) and Edge Computing technologies in the manufacturing sector, particularly in small and medium-sized enterprises (SMEs)**.

Two calls for projects for cascading funding to SMEs will be launched from January 2024 to finance AI tool integration projects led by European manufacturing SMEs.

The **20 winners will get €60,000 to carry out their projects** and will be monitored by AI REDGIO 5.0 partners throughout their experimentation to benefit from their expertise in digital transition and Artificial Intelligence.

[www.airegio-project.eu](http://www.airegio-project.eu)

# ASSOCIATED PROJECTS



ARCHIMEDES

## ARCHIMEDES PROJECT

The KDT JU co-funded project aims to reach five main objectives :

- to pave the way towards a new area of technological advances that will realise trusted extended Lifetime and MTBF for GaN, SiC, MEMS devices monitored with an ultra-stable Quantum reference, targeting up to 120 000 h of lifetime extension,
- to deliver eco-design-based technological innovations that will lead to the deployment of Digital assets and Services for ECS to ensure extended lifetime,
- to deploy efficient mechanisms that will facilitate and enable Standardization and Qualification Procedures fostering economy of scale,
- to realise accelerated energy transition in automotive, infrastructure and aviation domains; it will also strengthen the pan-European ecosystem exploiting the new era of power electronics in the three complementary industries,
- to ensure the deployment of tools, technologies and mechanisms that will strengthen Europe's competitiveness for a resilient, cyclic economy.

In ARCHIMEDES, components, models, and methodologies will be developed, to increase the efficiency and lifetime of the electric propulsion systems, power generation technology, and energy storage devices in automotive, aviation, and infrastructure domains.

**Supported by 48 partners, ARCHIMEDES aims to build trust in the new technologies and contributes to acceleration of the energy transition for a safe and secure digital society 5.0.**

[www.archimedesproject.eu](http://www.archimedesproject.eu)

## FREE4LiB

## FREEFORLiB PROJECT

Feasible Recovery of critical raw materials through a new circular Ecosystem FOR a Li-Ion Battery cross-value chain in Europe

Making it easier to recycle and remanufacture end-of-life lithium-ion batteries. The transport sector is responsible for around one quarter of Europe's greenhouse gas emissions. Electric vehicles can contribute significantly to the decarbonisation of future road transport, but lithium-ion batteries (LiBs) remain an obstacle: they are not green enough to sufficiently reduce mobility footprints.

[www.freeforlib.eu](http://www.freeforlib.eu)

# UPCOMING EVENTS



**May 14-15th, 2025**  
*Bordeaux*  
*FRANCE*



**July 2-3rd, 2025**  
*Rennes*  
*FRANCE*



**November 5th, 2025**  
*Lyon*  
*FRANCE*



The World's No. 1 Trade Fair  
for Plastics and Rubber

**October 8-15th, 2025**  
*Dusseldorf*  
*GERMANY*



**June 2-5th, 2026**  
*Lyon*  
*FRANCE*



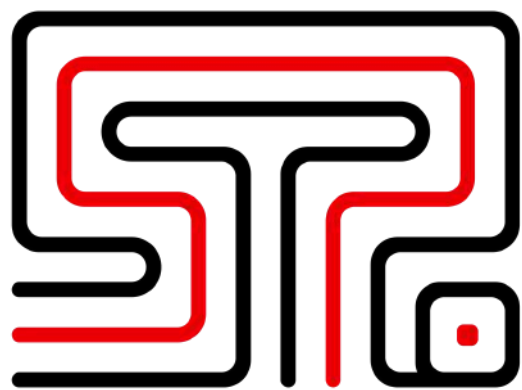
**March 2026**  
*FRANCE*



**2026**  
*/*



**October 6th, 2026**  
*Bordeaux*  
*FRANCE*



# SMART POLYMERS

10TH EDITION

**CONTACT US**



## **POLYMERIS**

Maison des Entreprises  
180 rue Pierre et Marie Curie  
01100 BELLIGNAT - FRANCE

+33 (0)4 74 12 19 23  
[contact@polymeris.fr](mailto:contact@polymeris.fr)

[www.polymeris.fr](http://www.polymeris.fr)



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## **NEXTMOVE**

Innovapôle 76,  
50, rue Ettore Bugatti  
76800 SAINT-ETIENNE DU ROUVRAY

+33 (0)2 35 65 78 17  
[contact@nextmove.fr](mailto:contact@nextmove.fr)

[www.nextmove.fr](http://www.nextmove.fr)