

# SMART PLASTICS

**9TH EDITION**  
**SMART PLASTICS CONGRESS**

**JANUARY 22 & 23, 2024**  
**BARCELONA, SPAIN**

*Event organized by :*



*In partnership with :*



*With the support of :*



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**La Région**  
Auvergne-Rhône-Alpes



*This operation received financial support of the Auvergne-Rhône-Alpes Region*



**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**



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# JANUARY 22, 2024

1:30 PM	Welcome coffee
2:00 PM	Introduction
2:05 PM	Conference : "The state of standardization of plastronics and printed electronics" <b>Francisco FOURCADE, IPC</b>
2:30 PM	Conference "The Edge of plastronics" <b>Arroyo IKER, EURECAT</b>
2:55 PM	Conference "Promoting sustainable electronics through automotive and medical applications" <b>Didier GALLAIRE, CEA</b>
3:20 PM	Conference "Innovative compounds for electronics (from 5G to conductivity)" <b>Tessnim SGHAIER, MCPP</b>
3:45 PM	Coffee break
4:00 PM	Conference "Automotive interior Outlook and challenges" <b>Ernesto BIEMPICA, KOSTAL AUTOMOTIVE ELEKTRIK</b>
4:25 PM	Conference "An overview of printed sensors over plastic substrate" <b>Tiziano FAPANNI, UNIVERSITY OF BRESCIA and Edoardo CANTÚ, INXENSE</b>
4:50 PM	Conference "CRITERION (aCcelerate cReep lIfeTimE pRedlctiON), in combination with Functional Printing techniques and Artificial Intelligence on plastics materials" <b>Arancha SANCHEZ, CENTRO STIRLING and Udane ASTOBITZA, LEARTIKER</b>
5:30 PM	B2B Meetings
7:00 PM	End of Day 1
8:30 PM	Networking Dinner

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# SPEAKERS



**Francisco FOURCADE, IPC**

Master Instructor

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



**Arroyo IKER, EURECAT**

Head of In Mold Electronics

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**Didier GALLAIRE, CEA**

Head of laboratory - Printed & flexible electronics unit

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**Tessnim SGHAIER, MCPP**

R&D Engineer

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# SPEAKERS



**Ernesto BIEMPICA, KOSTAL**

AE R&D Manager

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**Tiziano FAPANNI, UNIVERSITY OF BRESCIA**

Postdoctoral Fellows

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UNIVERSITÀ  
DEGLI STUDI  
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**Edoardo CANTÚ, INXENSE**

CEO

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**Arancha SÁNCHEZ, CENTRO STIRLING**

Researcher, specialist in Functional Printing

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**Udane ASTOBITZA, LEARTIKER**

Researcher

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MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

# JANUARY 23, 2024

- 9:00 AM** Welcome
- 9:15 AM** Conference "Surface fonctionalization by texturing the mold with femtosecond laser" **Raúl GARCIA, MICRORELLEUS, S.L.**
- 9:40 AM** Conference "New electronic functionalities in plastic by In Mold Electronics" **Joaquin CASTAN, AIMPLAS**
- 10:05 AM** Conference "Photonic Curing for In-Mold Electronics" **Hugo CAUCHY-CLERC, INSA**
- 10:30 AM** Conference "Challenges for the LDS® process in Radio Frequency applications" **Amaury VEILLE, S2P**
- 10:55 AM** Coffee Break
- 11:10 AM** Round Table "Outlook of plastronic in the world of electronic"  
Moderator: **Didier MULLER, CLAYENS NP**  
**Paavo NISKALA, TACTOTEK / Amaury VEILLE, S2P / Paul LACHARMOISE, EURECAT / Karl Magnus WESTPHAL, MERCEDES-BENZ**
- 12:10 PM** Introduction to the EURECAT visit & logistic
- 12:20 PM** Conclusion
- 12:30 PM** Lunch
- 1:30 PM** B2B Meetings
- 3:00 - 7:00 PM** Visit to the EURECAT PLASTRONICS PILOT PLANT  
(EURECAT CERDANYOLA)

Event organized by :



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# SPEAKERS



**Raúl GARCIA, MICRORELLEUS, S.L.**

CEO

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**microrelleus**



**Joaquín CASTAN, AIMPLAS**

Printed electronics and IME Researcher

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**Hugo CAUCHY-CLERC, IMP**

PhD student

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**Amaury VEILLE, S2P**

Technical Director

[www.s-2p.com](http://www.s-2p.com)





# ROUND TABLE



## Didier MULLER, CLAYENS NP

Materials & Partnerships Strategy Manager

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## Paavo NISKALA, TACTOTEK

SVP IMSE Technology

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## Amaury VEILLE, S2P

Technical Director

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## Paul LACHARMOISE, EURECAT

Director | Functional Printing & Embedded Devices

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## Karl Magnus WESTPHAL, MERCEDES-BENZ

Development engineer

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Mercedes-Benz

# ABOUT THE PLASTRONICS PLANT VISIT:

This tour is limited to 40 people. Eurecat Cerdanyola is a 35-minute drive from Barcelona World Trade Center, transportation will be provided.

Eurecat is the Technology Centre of Catalonia. Providing the industrial and business sectors with differential technology and advanced expertise offers solutions to their innovation needs and boosts their competitiveness in a fast-paced environment.

Functional Printing & Embedded Devices Unit has more than 10 years of experience in printed, in-mould & hybrid electronics. Together with the Centre's other capabilities, this allows us to deliver solutions to complex and specific challenges in a wide range of sectors including health & wellness, sport, packaging, and mobility.

We are members of the leading printed electronics clusters and associations & we have received international recognition for our innovations over the years with numerous awards at trade fairs and congresses such as the LOPEC & ChemPlastExpo. Additionally, Eurecat is recognized as a KET Technology Centre by the European Commission due to our close partnership with SMEs in their market-oriented research and innovation activities. We bring cutting-edge technologies to production sectors which will unlock the shift towards a more efficient and sustainable production model. Prior to the tour, Eurecat will give a 10-minute presentation about the company and its technology. Participants will be guided through our Plastronics Pilot Plant.

**CONTACT**



**Cristina  
CASELLAS COLL**

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# IPC



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.

IPC WinterCom is a major event for volunteers worldwide to participate in all IPC technical standardization activities & contribute to their most used industry standards and guidelines. For the first time in Europe, originating task groups will be meeting to continue the development and maintenance of top industry standards for design, materials, PCB fabrication, assembly, coatings, e-textiles, plastronics, connected factory exchange, traceability and digital twin.

**CONTACT**



**Francisco  
FOURCADE**

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# afelim



## United through Printed and Organic Electronics

- Emphasizing the use of printed and organic electronics.

## Making the Profession and Ecosystem Shine

- Creating a dynamic network.
- Facilitating exchange on industry issues.

## Key Objectives

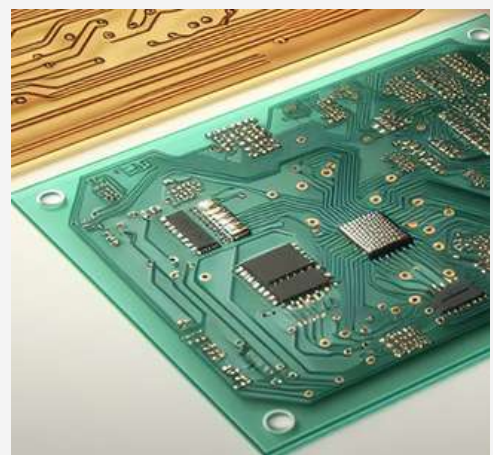
- Enhancing the value of the industry.
- Strengthening the R&D-production link.
- Linking technologies to key applications

## Strategic Initiatives

- Relaying messages to public authorities.
- Opening doors to major research programs.

## Representation and Engagement

- Representing members at events and trade shows.
- Serving as an influential relay at European and global levels.



**CONTACT**



**Jean-Marie  
VAU**

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# UPCOMING EVENTS

**JEC WORLD  
2024** The Leading International  
Composites Show  
March 5-7, 2024 | PARIS-NORD  
VILLEPINTE

March, 5-7th 2024

PARIS  
FRANCE

Plastic  
congres **3**  
afc  
mari  
sustainable

April 2024

ITALY

**FIP** FRANCE  
INNOVATION  
PLASTURGIE

June, 4-7th 2024

LYON  
FRANCE

**NPE2024**  
The Plastics Show

May, 6-10th 2024

ORLANDO  
USA

**Fakuma**  


October, 15-19th 2024

FRIEDRICHSHAFEN  
GERMANY

**R4** Composites  


October, 15-19th 2024

LABÈGE  
FRANCE

**MECAPLASTRONIC**

November 2024

LYON  
FRANCE

**COLLOQUE  
RECYCLAGE**

November, 5-6th 2024

CLERMONT-FERRAND  
FRANCE

# ASSOCIATED PROJECTS



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**.

Follow all the news on  
our LinkedIn page:



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



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.

Follow all the news on  
our LinkedIn page:

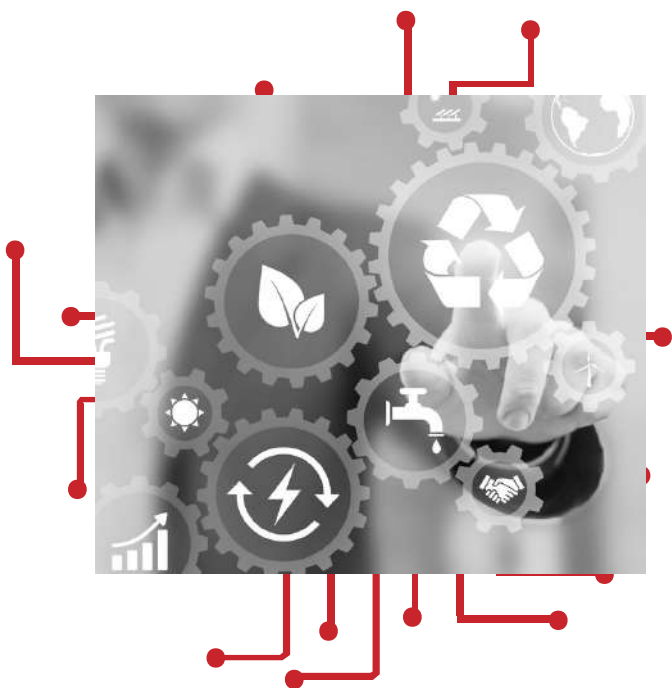


[www.airegio-project.eu](http://www.airegio-project.eu)



# SMART PLASTICS

9TH EDITION  
INTERNATIONAL CONGRESS  
**22-23 JAN. 2024**  
BARCELONA, SPAIN



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