



# 5<sup>th</sup> IIMC – International Injection Moulding Conference

20 – 21 SEPTEMBER 2023

[www.iimc-aachen.com](http://www.iimc-aachen.com)



This conference will center around the dynamic automotive industry, delving into the prevailing challenges through the lens of injection moulding. Notably, the discussions will revolve around sustainability, digitalisation, innovative advancements in interior design, and cutting-edge technologies in structural components, presenting diverse viewpoints to unravel their complexities.

The automotive industry is currently undergoing a remarkable metamorphosis, propelled by an escalating consciousness of sustainability and the consequential shift towards electrifying vehicles. A symbiotic relationship exists between the automotive sector and the injection

moulding process. Thus, the 5<sup>th</sup> International Injection Moulding Conference (IIMC) will comprehensively address the ensuing challenges pertaining to sustainability, digitalisation, structural components, as well as the interior and exterior domains. These pivotal themes will be explored from multiple perspectives in the main sessions, while the networking breaks and accompanying exhibition of the IIMC will provide an ideal platform for engaging with automotive industry experts. By hosting the conference at the state-of-the-art premises of the Plastics Innovation Center at IKV, the IIMC seamlessly amalgamates the latest research breakthroughs with industrial advancements, forging an invaluable synergy.



The changes in the automotive industry have an impact on mechanical engineering. Companies need to invest in new technologies to enable electric mobility, to digitalise their production and to develop new technologies for autonomous vehicles. Collaboration and flexibility are crucial to remain competitive and seize chances. Mechanical engineering faces the challenge of bringing quality and expertise to successfully manage change.

**Dipl.-Ing. Thilo Stier,**  
AKRO-PLASTIC GmbH



## KEY TOPICS

- Automotive
- Sustainability
- Recycling
- Carbon footprint
- Digitalisation
- Process engineering

## TARGET AUDIENCE

This conference is specifically tailored for international managers and experts hailing from diverse fields such as design, development, parts and mould-making, application technology, production, and quality assurance within the automotive industry. Additionally, scientists and researchers are also encouraged to participate. The IIMC serves as a global networking hub, and this year, it magnifies its focus on the automotive industry. The carefully curated selection of topics and esteemed speakers fosters collaboration among stakeholders across the entire value chain, encompassing both product and technology development. The core themes are thoughtfully chosen based on real-world challenges and prevailing industry trends, providing a solid foundation for numerous stimulating discussions.

## Tickets

Regular: ..... 1,490 €  
Member of the IKV A. of Sponsors: ..... 1,150 €

## Present your company at the table-top exhibition



The IIMC serves as a comprehensive networking platform for companies operating in the injection moulding segment. Join us at the table-top exhibition, where abundant opportunities await to connect with international experts.

Immerse yourself in the world of injection moulding at IKV's state-of-the-art technical center, where coffee breaks, live demonstrations, and an evening event will be hosted. This unique venue sets the stage for the table-top exhibition, providing an ideal platform to showcase your company and products to a diverse audience.

## AS AN EXHIBITOR, YOU'LL BENEFIT FROM A RANGE OF SERVICES:

- Exclusive pitch slots during the lecture program
- High tables, power supply, and reliable WiFi connectivity
- Dedicated space for your company's roll-up display
- Prominent company portrait (up to 1,000 characters) featuring your exhibitor logo on the IIMC website
- Display of your company brochure at the reception desk
- Visibility of your company logo in the break presentations between the lectures
- Price: €1,600 (plus VAT).

TUESDAY, 19. SEPTEMBER 2023		
7 pm	Evening Reception   Uptown Skylounge, Hotel Ininside by Melia, Sandkaulstr. 20, 52062 Aachen	
WEDNESDAY, 20. SEPTEMBER 2023		
	Opening	
8.45 am	Meet & Greet	
9.00 am	Welcome by the Institute's management	Prof. Dr.-Ing. Christian Hopmann, Institute for Plastics Processing (IKV)
9.10 am	Welcome and introduction to the topic by the Chairman of the IIMC	Thilo Stier, AKRO-PLASTIC GmbH
9.20 am	With innovation out of the recession	Prof. Dr.-Ing. Christian Hopmann, Institute for Plastics Processing (IKV)
10.10 am	Exhibitor's pitches	Companies of the industrial exhibition
10.30 am	Coffee break and visit to the industrial exhibition	
	Session I: Carbon footprint as an indicator of sustainability	
11.15 am	Product carbon footprint calculations for SMEs – From Business Case to Implementation	Dr. Raoul Meys, Carbon Minds GmbH
11.45 am	Sustainability prime! – Are recycles the only path to CO <sub>2</sub> reduction?	Dipl.-Ing. Steffen Lang, AKRO-PLASTIC GmbH
12.15 pm	KTM: Sustainability on two wheels – From development to the road	Dipl.-Ing. Hans Lochner, KTM Technologies GmbH
12.45 pm	Lunch	
	Session II: Increasing sustainability in the injection moulding process	
2.00 pm	t.b.d.	
2.30 pm	From Salad bowl to automotive part	Andreas Kellermann, Pöppelmann Kunststoff-Technik GmbH & Co. KG
3.00 pm	Autonomous Optimization of the Injection Molding Process after PCR Batch Change based on Artificial Intelligence	Yannik Lockner, M.Sc. RWTH, Institute for Plastics Processing (IKV)
3.30 pm	Coffee break and visit to the industrial exhibition	
	Session III: t.b.d.	
4.15 pm	t.b.d.	
4.45 pm	Efficiency increase for electric vehicles – the puzzle pieces to great reach <i>(working title)</i>	Dr. Jakob Manhart, Lucid Motors
5.15 pm	Research live - Guided tour to IKV's technical centres	
6.30 pm	Conference dinner and visit to the industrial exhibition	

THURSDAY, 21. SEPTEMBER 2023		
8.45 am	Meet & Greet	Thilo Stier, AKRO-PLASTIC GmbH
9.00 am	Welcome by the IKV Institute Management	
	Session IV: Foam injection moulding for function integration	
9.15 am	Injection moulded foaming with medium cooling/heating	Florian Dietl, BMW AG
9.45 am	Exploiting the potential of thermoplastic foam injection moulding through mould coatings	Jan Wolters M.Sc. RWTH, Institute for Plastics Processing (IKV)
10.15 am	Coffee break and visit to the industrial exhibition	
	Session V: Multi-component applications in automotive	
11.00 am	Advanced plastic welding techniques applied to EV thermal management components	Ing. M.A. Sc. Stephen Thompson, Sogefi Air & Cooling
11.30 am	From invention to series production: Hollow Profile Hybrids enabled by polyamides	Dr.-Ing. Matthias Theunissen, Envalior GmbH
12.00 pm	t.b.d.	
12.30 pm	Lunch	
	Session VI: Assistance systems and HMI	
1.45 pm	Special Requirements on Plastic Materials for Automotive Radar Systems	Dipl.-Ing. Niels Koch, Audi AG
2.15 pm	HMI & high decorative surface solutions made with servo-driven hot runner system FLEXflow	Stephan Berz, HRSflow GmbH
2.45 pm	Modern Design and Functionality Integrations	Dipl.-Wirtsch.-Ing. Michael Fuchs, Leonhard Kurz Stiftung & Co. KG
3.15 pm	Concluding discussion	
3.45 pm	Closing remarks and farewell   Prof. Dr.-Ing. Christian Hopmann, Institute for Plastics Processing (IKV), Thilo Stier, AKRO-PLASTIC GmbH	
4.00 pm	End of the conference	