



E-Mobility Workshop

Fire Safety Challenges in Automotive Plastics

12 November 2019

Maritim Hotel Darmstadt
Rheinstraße 105, 64295 , Darmstadt (Germany)

Programme

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|----------------------|--|------------------------------------|
| 08:30 | Registration | |
| 09:00 – 09:10 | Welcome | |
| 09:10 – 09:40 | E-mobility and flame retardants – an essential couple | Philippe Vangeel, Avere |
| 09:40 – 10:10 | Status quo and challenges in battery safety | Dr Klaus Brandt, Akkubrandt |
| 10:10 – 10:30 | Coffee break | |
| 10:30 – 11:00 | Modern FR-solutions for e-mobility | Manfred Döring, Fraunhofer LBF |
| 11:00 – 11:30 | Update on Standards and Norms on E-mobility | Lydia Wagner, VDE |
| 11:30 – 12:00 | Testing of flame retardants | Jens Stange, UL |
| 12:00 – 12:45 | Panel Discussion: (5 participants) <i>No flame, no risk: How safety and sustainability in e-mobility can become true</i> | |
| 12:45 – 14:00 | Lunch break | |
| 14:00 – 14:30 | Balancing flame retardancy and physicals in engineering plastics | Antonio Nerone, DuPont |
| 14:30 – 15:00 | Engineering plastics solutions based on polyamides | Florence Schütz, Solvay |
| 15:00 – 15:30 | Recycling of plastics from e-mobility | Arthur Schwesig, MGG Polymers |
| 15:30 – 15:50 | Coffee break | |
| 15:50 – 16:20 | Thermal management of batteries - challenges and solutions | N.N., Polytec PT GmbH |
| 16:20 – 16:50 | Cables for E-mobility: processing and performance | Markus Kemmler, Kemmler Consulting |
| 16:50 – 17:20 | Connectors: processing and performance | Franz Janson, TE Connectivity |
| 17:20 – 17:30 | Summary and closing remarks | |
| 17:30 | End of workshop | |

About Electromobility & fire safety

The automotive value chain is facing electromobility challenges such as compliance with standards and requirements of materials, choice of flame retardants and compliance with fire safety regulations. While the momentum on electromobility is strong, pinfa and FGK e.V. want to catalyze discussions and offer support.

With this workshop in Darmstadt, the heart of the Rhine Main area, pinfa FGK and the Fraunhofer LBF aim at bringing together the whole value chain on electromobility. Our goal is to kickstart discussions on fire safety challenges in electromobility: while the change towards e-mobility is irreversible, standards are undefined and the automotive value chain appears to be less aligned when it comes to this important topic.

About pinfa, the Phosphorus, inorganic and nitrogen flame retardants association

pinfa is a group of global flame retardant manufacturers and users committed to fire safety and improving the health and environmental profiles of our products. A sector group of Cefic, the European Chemical Industry Association, pinfa was created in 2009.

www.pinfa.eu

About FGK, Forschungsgesellschaft Kunststoffe e.V.

"Forschungsgesellschaft Kunststoffe (FGK) is a research association focused on polymer materials and member of the AiF network. Mainly cross-cutting projects are funded in cooperation with industrial partners and research institutions.

In particular application-oriented research and development in the field of construction materials and plastics with targeted functionalities are promoted. "

<https://forschungsgesellschaft-kunststoffe.de/>

About Fraunhofer LBF - Fraunhofer Institute for Structural Durability and System Reliability

Fraunhofer LBF in Darmstadt has stood for the safety and reliability of lightweight structures for 80 years. Today, with its expertise in the areas of structural durability, system reliability, vibration technology and polymer technology, the Institute provides solutions for most important cross-cutting issues of the future: lightweight design, functional integration and cyberphysical mechanical engineering systems. The focus here is on solutions to social challenges such as resource efficiency and emission reduction as well as future mobility, like e-mobility and autonomous, networked driving. Comprehensive skills ranging from data acquisition in real operational field use to data analysis and data interpretation, in addition to deriving specific measures to design and improve material, component and system properties form the basis for this.

Customers come from automotive and commercial vehicle construction, railway transport engineering, shipbuilding, aviation, machine and plant construction, power engineering, electrical engineering, medical engineering and the chemical industry. They benefit from the proven expertise of over 400 employees and cutting-edge technology accommodated in more than 11,560 square meters of laboratory and experimental space.

<https://www.lbf.fraunhofer.de/>

Logistics

Venue

The workshop will take place at Darmstadt's Maritim Hotel, in Germany. It is located on Rheinstraße 105, 64295, Darmstadt (Germany).



Telephone: +49 (0) 6151 878-0

Fax: +49 (0) 6151 878-2169

Reservations: +49 (0) 6151 878-2190

info.dar@maritim.de

A block booking of guests room is available (at your own costs) with the reference password "E-Mobility Workshop"
<https://www.maritim.de/de/hotels/deutschland/hotel-darmstadt/hotelzimmer>

Workshop Registration

The registration is free of charge, based on available capacity.

To register, please send the following form available hereinafter filled in to info@fgkunststoffe.de

Who should attend?

100 participants are expected, from the automotive industry (OEMs, Tier 1 supplier, etc.), from the chemical industry (Flame retardants manufacturers, distributors), from the polymer industry (compounders, recyclers etc.) and beyond (academia, civil society, fire testing laboratories, etc.). Products managers, Heads of Business Line/Unit, Regulators, technical leaders, etc.

The workshop will be held in english language only.

Enquiries

Interested parties may contact FGK for enquiries info@fgkunststoffe.de



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Registration (please send via Mail or Fax)

to the PINFA-LBF-FGK-Workshop „E-Mobility“

12. November 2019

Maritim Hotel Darmstadt, Rheinstraße 105, 64295 Darmstadt, Germany

I'm attending the free event.

I agree, that the FGK may publish pictures of the event with my person on the Homepage or in the Newsletter.

Yes

No

The FGK provides a list of participants in the password-protected download-area of the Homepage. I agree, that I will be listed there with my name and the name of my employer.

Yes

No

The FGK has reserved a contingent of rooms at the Maritim Hotel. These can be booked on your own account until 14.10.2019 under the keyword „E-Mobility Workshop“.

Title / First name / Last name

Company

Address

E-Mail / Phone

Date / Signature