

Call for Papers & Workshops

The wiring system of a modern vehicle is still one of the most underestimated components in the industry. It must adapt to the current trends in the automotive industry. The requirements with regard to autonomous driving, e-mobility and increasing networking have a direct influence on the wiring system - even during the development phase. In addition, there are efforts to automate production in order to reduce the manual production effort that is still considerable today.

The pressure to innovate in the automotive industry is unbroken: New generations of vehicles should be lighter and more efficient, while at the same time offering additional functions for the driver and passengers. For the wiring system, this means new design and manufacturing processes, architectures, materials and technologies.

This also reflects the main topics of the **Wiring Harness Congress 2020**, which the trade journal **Eletronik automotive** is organising for the ninth time at Hochschule Landshut on September 22, 2020 with the kind support of the **prostep ivip Association**. The congress is aimed at developers and technical experts from the entire automotive value chain, i.e. OEMs, tier-n suppliers, manufacturers of development tools or components and service providers. This year we are again looking for interesting contributions for two parallel lecture tracks.

The track **Wiring Systems Technologies** deals with wiring system architectures, materials and technologies. Topics such as:

- E/E architectures and their effect on the wiring system structure (redundancy)
- Cable systems for power and information transmission and cable harness production
- Networking concepts in the vehicle (e.g. Ethernet, CAN-FD, CAN-XL etc.)
- New materials in the wiring system
- Connectors, plug connection systems in 12 V, 48 V and high-voltage vehicle electrical systems

Multi-voltage electrical systems in electric and hybrid vehicles

The **VEC Day** addresses the paradigm shift towards model-based vehicle electrical system development.

Topics of this track are:

- Process integration through standards (VEC and KBL)
- Consistent data availability in the vehicle electrical system development
- Tools and tool chains
- Processes and automation in wire harness production
- Integration of the electrical development processes into the overall vehicle development
- Systems engineering in vehicle electrics (EMC, functional safety, ISO 26262, traceability)
- Model-based verification

At the same time, participants are offered the opportunity to attend selected specialist workshops. Possible workshop topics are:

- Visions for future wiring harness production (3D printing, production-ready components)
- EMC simulation of vehicle electrical systems

Of course, alternative suggestions from the field of wiring systems are also welcome. We are also happy to receive suggestions from other industries to show how they are dealing with the challenges they face. Take part in the Wiring Harness Congress and send us a meaningful summary of your presentation online:

www.bordnetz-kongress.de

We look forward to your proposals!

The closing date for applications is 3 April 2020.

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