FOCUS TOPICS 2021 E.G.

» The wire harness system of new vehicles: BMW iX, Daimler S-Class and EQS
» New wire harness system architectures/future bus systems
» Automation in production (from the individual cable to the HV wiring system)
» Increasing the reliability of vehicle electrical systems and their components
» The VW Group's environmental targets for future wire harness system

WITH PRESENTATIONS BY

APTIV, ARENA2036, AUDI, BOSCH, BMW, FLEXSTRUCTURES, GG GROUP, KOMAX, LEAR, LEONI WIRING SYSTEMS, MERCEDES-BENZ, TE CONNECTIVITY, DRESDEN UNIVERSITY OF TECHNOLOGY, TEXAS INSTRUMENTS, UNIVERSITY OF KASSEL, VOLKSWAGEN, ZF FRIEDRICHSHAFEN

Information and registration: www.wireharness.eu
Intelligent Systems for a Sustainable Mobility

Always a generation of electrical systems ahead, thanks to new technologies

- **Electrics**: energy efficient through weight-optimized electrical systems
- **E-mobility**: long range and fast charging with our 800 volt battery
- **Connectors**: reliable power distribution through load-optimized connections
- **Interior**: sustainable lightweight constructions and resource-saving processes

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THE DIGITAL AUTOMOTIVE WIRE HARNESS INDUSTRY MEETING 2021

Expert presentations, exhibition and networking at the 9th International Conference

In 2021, the 9th International Automotive Wire Harness and Electrical Distribution System Conference powered by Süddeutscher Verlag Veranstaltungen will address the current trends and challenges of the industry, such as: The wire harness systems of new vehicles (BMW iX, Daimler S-Class and EQS), new wire harness system architectures and future bus systems, automation in production, increasing the reliability of wiring systems and their components, environmental goals of the VW Group for future wire harness systems.

Thanks to the active support of the advisory board, we have once again developed an attractive and well thought-out agenda with international speakers.

In addition to selected technical presentations, the online event will also include networking opportunities: In the breakout sessions, you will be able to exchange ideas on specific topics in small groups. Personal face-to-face interviews with advisory board members, speakers, exhibitors and participants are also easily and conveniently possible via video chat. As a highlight, our virtual evening event awaits you, for which we offer a surprise program including care package (in the DACH region). Here you can make many new interesting contacts in a very short time.

In addition, take advantage of the opportunity to have an intensive exchange with our exhibitors. What innovations are there on the market? What challenges will we face in the coming months?

Take this opportunity to make new contacts and deepen existing ones. We are looking forward to your participation and wish you many new impulses and good conversations!

Georg Sterler
Former Head of Wire Harness System Development
Audi

Ingo Martin
Head of Automotive & Industry Department
Süddeutscher Verlag Veranstaltungen
Automotive Connectors

Rosenberger develops and manufactures innovative connector systems which fulfill the tough requirements in modern vehicles – today and even in future.

FAKRA- or high-speed-FAKRA-mini-connectors, high-power- or high-speed data connectors, high-voltage or magnetic connectors – Rosenberger provides automotive connectivity systems in the highest quality and best performance for a variety of applications:

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- Autonomous driving
- Navigation and telematics
- Infotainment and fond entertainment
- Internet and mobile communication
- Battery charging and power transmission in electric and hybrid vehicles

www.rosenberger.com
8:50 a.m.  INTRODUCTION BY GEORG STERLER

9:00 a.m.  MaaS / TaaS through autonomous mobility: market and technology development
Torsten Gollewski
Executive Vice President Autonomous Mobility Systems
ZF FRIEDRICHSHAFEN AG

9:30 a.m.  The BMW iX: Pioneer of a New Age
Fabian Rink
Project Manager Physical Wiring System
BMW iX
BMW GROUP

10:00 a.m.  Requirements for Cabling Components and Limiting Factors for Data Rates up to 25 Gbps
Bert Bergner
Senior Principal R&D Engineer
TE CONNECTIVITY GERMANY GMBH

10:30 a.m.  Assessment of Future Architectures for High-Reliability Electrical Distribution Systems (EDS)
Prof. Ludwig Brabetz
Director, Institute for Powertrain and Automotive Engineering (IAF)
Co-Author: Mohamed Ayeb
Senior Lecturer
UNIVERSITY OF KASSEL

11:00 a.m.  EXHIBITOR PITCHES & NETWORKING:
» Dr. Rainer Jäkel, CTO, ArtMinds Robotics GmbH
» Gerhard Angst, CEO & President, Concept Engineering GmbH

1:00 p.m.  Global Wiring System Diagnostics
Lars Braun
Development Engineer / PhD Student
ROBERT BOSCH GMBH

1:30 p.m.  Chance HV Wire Harness – Current Challenges and Future Fields of Action for a Fully Automated Assembly
Stefan Olbrich
Supplier Quality Engineer
MERCEDES-BENZ AG

2:00 p.m.  Aptiv Smart Vehicle Architecture™ Addresses EDS Automation Challenges
Doyeon Sohn
Global Director of Innovation
APTIV

2:30 p.m.  EXHIBITOR PITCH & NETWORKING:
» Michael Richter, Market Development Director – Integrated Electrical Systems, Siemens Digital Industries Software

3:30 p.m.  Environment and Sustainability in the Functional Wiring System
Thomas Hänsel
Subdivision Manager
VOLKSWAGEN AG

4:00 p.m.  Innovation Initiative Wire Harness: A Joint Effort towards Automation
Georg Schnauffer
Research Coordinator Industry 4.0
ARENA2036 E.V.

4:30 p.m.  Characterization of the Condition of Charging Connectors
Toni Israel
Research Associate at the Chair of High Voltage and High Current Engineering
DRESDEN UNIVERSITY OF TECHNOLOGY

5:00 p.m.  VIRTUAL GET-TOGETHER & NETWORKING (+ BREAKOUT-SESSIONS)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker, Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:55 a.m.</td>
<td>Welcome by Georg Sterler</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>The new S-Class Limousine and the new EQS of Mercedes-Benz</td>
<td>Leonhard Heinrichs, Senior Manager Wiring Harness Development, Mercedes-Benz AG</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Rethink Digital Harness Design: Introducing Automated Space Exploration</td>
<td>Antoine Porot, Simulation Engineer, Leoni Wiring Systems France S.A.S.</td>
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<tr>
<td>10:00 a.m.</td>
<td>PCIe over Automotive Cables: a Co-Design Collaboration between IC and Cable</td>
<td>Michael Lu, Systems and Applications Engineer, Texas Instruments</td>
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<tr>
<td>10:30 a.m.</td>
<td>Selective Metal Coating: Sustainability in wiring system component development</td>
<td>Markus Lutzenberger, Head of Development / Construction of Wire Harness Components, Audi AG</td>
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<tr>
<td>11:00 a.m.</td>
<td>Exhibitor Pitches &amp; Networking</td>
<td></td>
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<tr>
<td>1:00 p.m.</td>
<td>High Power Connectivity in the Electrical Powertrain</td>
<td>Isabell Buresch, Fellow R&amp;D Engineering, Automotive Global</td>
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<td>Frank Ostendorf, Senior Manager Engineering, Te Connectivity Germany Gmbh</td>
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<tr>
<td>1:30 p.m.</td>
<td>Physics-Based Wiring Harness Design and Validation 36 Months before SOP</td>
<td>Oliver Hermanns, CEO, Flexstructures Gmbh</td>
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<tr>
<td>2:00 p.m.</td>
<td>Networking-Break</td>
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<tr>
<td>2:30 p.m.</td>
<td>The Autonomous Processing of Single Wires, a Vision Becomes Reality</td>
<td>Conradin Jost, Manager Product Group Process Modules, Komax AG</td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td>Aptiv Smart Electrical Center: Enabling Optimized Content Growth on Existing Electrical Architectures</td>
<td>Ajay Bhargava, Global Product Management Director, Electrical Center, Aptiv</td>
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<td></td>
<td>Stefano Spadoni, Global Engineering Director, Electrical Center, Aptiv</td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>Solutions for High Voltage and High Vibration Applications</td>
<td>Sven Vesper, Engineering Supervisor, Lear Corporation Engineering Gmbh</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>End of Conference</td>
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Your system partner for the future of wiring systems

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1. Use the QR code or follow the link: www.wireharness.eu
2. Fill out the form and submit it

9TH INTERNATIONAL CONFERENCE
AUTOMOTIVE WIRE HARNESS AND ELECTRICAL DISTRIBUTION SYSTEM
October 12 and 13, 2021

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ingo.martin@sv-veranstaltungen.de

Participant fee: € 985 plus VAT
Free participation in the virtual evening event
Networking with the participants: Targeted and direct with our online platform, this is intuitively possible. For this purpose, participants in the DACH region receive a culinary care package by mail.

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