

Explore hybrid technology for trucks, buses & garbage collection trucks!

E/E for Commercia

Innovative technologies for energy efficiency and enhanced safety

21st – 23rd March 2011 | Hilton Nürnberg | Germany

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Hear the latest trends and developments on E/E Systems for Commercial Vehicles from leading companies:

- Iveco Altra S.p.A.
- Delphi Deutschland GmbH
- Voith Turbo GmbH & Co. KG
- Continental Automotive GmbH
- Magna Powertrain, Engineering Center Steyr GmbH & Co. KG
- Bender GmbH & Co. KG
- Forschungsgesellschaft Kraftfahrwesen mbH Aachen
- ZIELPULS GmbH
- TRW Automotive Lucas Varity GmbH
- European Batteries
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 ür Kraftfahrzeuge **RWTH Aachen University**
- Landshut University of Applied Sciences
- Bowman Power Group Ltd.
- FAUN Umwelttechnik GmbH & Co. KG
- Pforzheim University of Applied Sciences

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Researched and developed by

- Explore cutting-edge hybrid technologies for commercial vehicles and discuss first experiences
- Gain insight into **energy management** for hybrid commercial vehicles and define technical limits
- Learn about economic and legislative trends to meet future demands
- Identify the requirements ISO 26262 brings to safeguard functional safety for the E/E system
- Hear about advanced E/E system architecture for hybrid commercial vehicles and discuss operating strategies

TOPIC HIGHLIGHTS:

Hybrid technology for commercial vehicles: Potential and limits first experiences Giorgio Mantovani, Advanced Engineering Manager, Iveco ALTRA S.p.A., Italy

E/E Systems for hybrid commercial vehicles Thomas Karer, Head of Electric/Electronics, Andreas Eglseer, Magna Powertrain, Engineering Center Steyr GmbH & Co. KG, Austria

The key to Class 8 truck hybrid success – exhaust energy recovery Jonathan McGuire, Technical Director, **Bowman Power Group Ltd., UK**

INTERACTIVE WORKSHOP DAY | Monday, 21st March 2011

- A Software architecture and AUTOSAR for automotive control systems
- B Interface design of diverse dynamics E/E systems in theory and practice

E info@igpc.de

- **C** ISO 26262: How to resolve the new challengers?
- D Advanced driver assistance systems (ADAS) Trends & challenges

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Dear colleague,

The main challenge for today's commercial vehicle industry is the optimisation of energy efficiency. Since the full optimisation potential of the traditional combustion engine in commercial vehicles is tapped, manufacturers are looking for new opportunities.

Hybrid technology, though it certainly has its limits, seems to be a very promising way to go. However, hybrid technology is not only compelling but also demanding, especially for the commercial vehicle sector. It involves a lot of challenges for the battery, the energy management and the electrical system of the vehicle as a whole.

The other main field of innovation are new technologies for **enhanced safety**. New technologies are pushed by the need to meet legal standards. In this respect it is important that legal requirements make the Emergency Brake Assist compulsatory from 2012/13 on.

To address these challenges efficiently and benefit from best practice and cutting-edge case studies do not miss our

E/E for Commercial Vehicles

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This conference has been designed for the commercial vehicle industry, with the purpose of providing valuable insight into the issues currently being faced. By attending, you will have the chance to network with regional and international experts who will report about first-hand experiences and latest developments in E/E systems for commercial vehicles.

Kind regards.

lander. Net

Dr. Klaudia Malowitz Project Manager

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- Senior Engineers
- Product Managers
- Project Leaders

Departments:

- E/E Systems Vehicle Control
- Safety & Driver assistance systems
- Powertrain
- Hybrid Drive Train
- Business development
- Marketing

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INTERACTIVE WORKSHOP DAY | Monday, 21st March 2011

Workshop A 10:00 – 13:00	Software architecture and AUTOSAR for au	tomotive control systems
	Automotive vehicle networks are getting more and more complex. No connected with different bus systems. Most OEMs have severe proble growth, more functions have to be integrated into one control unit. Bu network level to the software level . Therefore new methodologies a control units. AUTOSAR , an open and standardized automotive software growing software complexity inside and across control units. It tries to moving around software in the ECU network.	ems to master this huge amount of control units. To stop this t integrating functions only shifts the complexity from the are necessary to handle the software complexity inside the are architecture, is a key enabling technology to manage the
	The workshop focuses on the following aspects:	
	 Handling complexity Software layers What is AUTOSAR AUTOSAR software architecture From ECU oriented development to function oriented development 	 AUTOSAR methodology Software components and interfaces How to use AUTOSAR to develop a tire pressure monitoring system AUTOSAR toolbox
	Prof. Dr. Dieter Nazareth, Department of Computer Scienecs, Land	shut University of Applied Sciences, Germany
Workshop B 10:00 – 13:00	Interface design of diverse dynamics E/E sy	vstems in theory and practice
	Interface design in E/E system is a not about following a simple rule. Of the system and the organisation behind. Wildly grown systems us nised and migrated to a target system. AUTOSAR only provides a la which can be different within each system.	ually show a variety of approaches which need to be synchro-
	Steps in the workshop will be:	
	 Introduction to design criteria Judging importance of principles Guiding through a design process: a step-by-step example 	
	Dr. Marc Poppner, Managing Director, ZIELPULS GmbH, Germany Philipp Rottgardt, Senior Consultant, ZIELPULS GmbH, Germany	
Workshop C 14:00 – 17:00	ISO 26262: How to resolve the new challen	ges?
	The workshop will give a brief overview on the standard . It will highlig possible solutions . In the workshop an outlook is given on recent dee the industry. The workshop gives possibility of questions and interactive the participants.	velopments, and on the expected impact of the standard on
	Planned topics to cover:	
	 Important milestones Overview of ISO 26262 Hazard analysis, risk assessment, and ASIL Safety concept and system design Distributed development and organisational preconditions Challenges for the hardware safety architecture (e.g. new vs. old metrics) 	 Challenges in software design (e.g. SW testing) Summary and outlook Discussion/exchange of experience with and among participants
	Dr. Tomislav Lovric, Safety Assessor Braking EU & AP, TRW Autom	otive Lucas Varity GmbH, Germany
Workshop D		
14:00 – 17:00	Advanced driver assistance systems (ADAS) – Trends & challenges
	Traffic density is ever increasing and more complex situations arise for to enhance traffic safety, new technologies and systems are developed to manage critical situations by sensing the surrounding environmed necessary information or warning . When the driver is no longer able mitigate or even prevent an accident . To achieve these goals, ADAS such as braking and steering system , drive train and suspension .	d. These "advanced driver assistance systems " can help nt of the car or truck and providing the driver with the to handle the situation, the systems can intervene and
	After an overview of the state of the art, the workshop will be focuse	d around the following questions:
	 How can ADAS successfully be developed and introduced into the r 	market

Discussion of trends and challenges

Prof. Jürgen Wrede, Head of Laboratory of Vehicle Mechatronics, Pforzheim University of Applied Sciences, Germany



CONGRESS DAY ONE | Tuesday, 22nd March 2011

09:00 Registration & coffee

09:30 Chairman's welcome & opening address

Exploring new E/E technologies & new markets for commercial vehicles

- 09:45
 Future commercial vehicle industry market trends and technological solutions
 - Future economic and legislative trends and their impact on the commercial vehicle industry
 - The development of emerging and saturated markets risks and opportunities
 - Assessment of key technological trends and their potential to meet future demands

Markus Thoennes, Strategy and Process Development, Forschungsgesellschaft Kraftfahrwesen mbH Aachen, Germany

Enhancing safety for commercial vehicles

10:30

Case Study

Case Study

RSDS for commercial vehicle application

- Presentation of the RSDS sensor (HW, functionality)
- Truck features such as BlindSpotDetection & RearCrossTrafficAlert

Dr. Tiemo Ehlers, Systems Engineer, Delphi Deutschland GmbH, Germany

11:15 Refreshment break & networking

11:45 Implementation of ISO 26262 within TRW

- Overview on TRW solutions to the implications of ISO 26262
- TRW overall safety organisational structure as backbone of any safety process implementation
- Outlining of the TRW safety lifecycle as evolved from previous standards (IEC 61508)
- Safety infrastructure as support for the projects
- Amplify experience and lessons learned from the introduction of ISO 26262 within TRW

Dr. Tomislav Lovric, Safety Assessor Braking EU & AP, TRW Automotive Lucas Varity GmbH, Germany

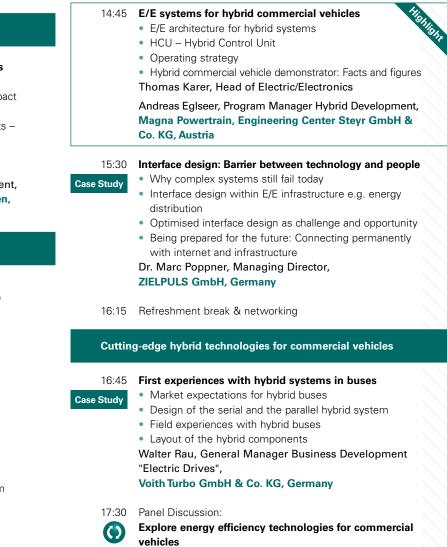
12:30Insulation monitoring in high voltage systems for
hybrid and electric vehicles

- Get a more reliable vehicle with high ohmic insulation monitoring
- International standards and regulations
- · How to locate insulation faults in high voltage systems
- Plugs in hybrid and fully electric vehicle: What about Residual DC-Current in the system?
- Protection of charging stations with Residual Current Monitoring Type B

Holger Potdevin, Key Account Manager OEM, Bender GmbH & Co KG, Germany

13:15 Networking lunch





Selected speakers of the day

18:00 End of congress day one and closing remarks from the chairman

"Excellent mixture of broad topic field, competent speakers."

Dr. Rainer Kaufmann, Head of technical Engineering, Dt. ACCUmotive



CONGRESS DAY TWO | Wednesday 23rd March 2011 12.00 08:45 Registration & coffee Panel Discussion: Hybrid technology for commercial vehicles: (\mathbf{O}) 09.10 Chairman's welcome & opening address **Opportunities and limits** Joerg Luetzner, Head of Services & Commercial Vehicles, Selected speakers of the day **Continental Automotive GmbH, Germany** 12:45 Networking lunch Cutting-edge hybrid technologies for commercial vehicles A new hybrid powertrain for garbage collection trucks 14:15 Design of the power train Case Study 09:15 Conception and design of an electrical bus used for the • Functional and electrical safety of the complete system public transport system: Challenges & solutions Case Study Battery design und battery management Design of the power train Quick charging procedure • Functional and electrical safety of the complete system Georg Sandkühler, Battery design und battery management FAUN Umwelttechnik GmbH & Co. KG, Germany • Quick charging procedure Sebastian Mathar, Group Leader Energy Systems, Efficient energy management for hybrid commercial vehicles Electronics Department, Institut für Kraftfahrzeuge – RWTH Aachen University, Germany 15.00Lithium-lonen batteries for commercial vehicles Lithium-lonen battery technology today Case Study Honion 10:00 Hybrid technology for commercial vehicles: Store requirements for commercial vehicles Potential and limits - first experiences Future potentials Extended field test experiences for hybrid daily and Alexander Bodensohn, Regional Manager Central Europe, hybrid Eurocargo: **European Batteries, Finland** Architecture 15.45 End of congress day two and Functionality Performances closing remarks from the chairman Availability Reliability • Customers acceptance Giorgio Mantovani, Advanced Engineering Manager, Iveco ALTRA S.p.A., Italy Networking 10:45 Refreshment break & networking Visit our Automotive IQ-Group on www.linkedin.com and 11:15 The key to Class 8 truck hybrid success www.xing.com for professional exchange and contacts. exhaust energy recovery • Competing requirements for NOx and CO2 compliance XING 🔨 Comparing alternative technologies Automotive Linked in. · Readiness for market

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Jonathan McGuire, Technical Director, Bowman Power Group Ltd., UK

Vehicle integration

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Please indicate choice of workshop on Monday, 21st March 2011

Workshop A 🔲 | Workshop B 🗌 | Workshop C 🔲 | Workshop D 🗋

A: Software architecture and AUTOSAR for automotive control systems

B: Interface design of diverse dynamics E/E systems in theory and practice

C: ISO 26262: How to resolve the new challengers? D: Advanced driver assistance systems (ADAS) - Trends & challenges

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