3rd International Conference
EDrive

Main topics:

- Electrified powertrains in series
- Electric motor design and integrated battery design
- Switching concepts for electric drives
- Challenges in system integration
- Next-Gen E-Drive

With presentations held by:

Audi | AVL | BorgWarner | BP | Ford | Fraunhofer ICT | GKN | Hansestadt Hamburg | hofer | Honda | IAV | On Semiconductor | Opel | Roland Berger | Ruhr University Bochum | RWTH University Aachen | Schaeffler | Shell | Stackpole | Toyota | TU Darmstadt | Valeo | Volkswagen | Wacker Neuson | ZF Friedrichshafen

Free of charge entry to the VDI events
“Dritev” and “Powertrain Systems in Mobile Machines” with more than 1,300 participants

Interactive Plenary discussion
“2020 – 2025 – 2030: Challenges for technology, market and society”

With more than 100 exhibitors from the powertrain sector

June 24 and 25, 2020, Bonn, Germany
### 1st Conference Day
**Wednesday, June 24, 2020**

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<td>07:45</td>
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| 08:30 | Welcome address and opening of the Dritev congress  
**Dipl.-Ing. Matthias Zink**, CEO Automotive, Schaeffler AG, Bühl, Germany |
| 09:00 | Models for urban mobility of the future in Hamburg  
- Field tests of the vehicle industry and mobility service providers in Hamburg  
- Hamburg Takt: largest mobility offensive in public transport  
- Plans for the expansion of the transport infrastructure  
**Director of the Senate Martin Huber**, Director-General of Transportation and Highways, Ministry of Economic Affairs, Transportation and Innovation, Free and Hanseatic City of Hamburg, Germany |
| 09:05 | xEV – state and outlook Europe  
- Current registration/sales figures of passenger cars in Europe – Can 2021 targets be achieved – and how?  
- EV outlook: EU, China, US, world until 2030 (passenger cars and commercial vehicles)  
- Outlook Alternatives: Fuel cells, eFuels  
**Dr. Wolfgang Bernhart**, Senior Partner, co-authors: Dr. Christian-Simon Ernst, Stefan Riederle, all Roland Berger GmbH, Munich, Germany |
| 09:50 | 100% electrified by 2024 – How Opel becomes an electric brand  
- 2020: The year in which e-mobility will take off  
- E-mobility requires offers in small car segment  
- Flexible multi-energy platforms of Groupe PSA as significant enabler for comprehensive electrification  
- Many years of in-field experience with Ampera and Ampera-e as a foundation  
- What is next or what will complement? View on fuel cell and synthetic fuels  
**Dipl.-Ing. Christian Müller**, Managing Director Engineering, Opel Automobile GmbH, Rüsselsheim, Germany |
| 10:15 | Machine intelligence for construction site 4.0  
- Climate protection and emission regulation  
- Energy supply (diesel, battery, fuel cell, Power-to-X)  
- Increased efficiency through assistance systems and digitalization  
**Martin Lehner**, CEO and Chairman of the Executive Board, Wacker Neuson SE, Munich, Germany |
| 10:40 | Be interactive – Meet & Greet in the exhibition area, DritevLab and car presentation |
| 11:25 | Change to the parallel lecture series |

**Room Addis Abeba**

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| 11:25 | Welcome address and opening of the EDrive conference  
**Dr. Andreas Schamel**, former Director Global Powertrain Research & Advanced, Ford-Werke GmbH, Aachen, Germany |

**Room Addis Abeba**

**E-motor Design**  
**Session chair:** Thomas Pfund, Schaeffler Automotive Bühl  

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| 11:30 | Market-driven e-motor designs  
- Layout- and design process  
- Technology and production design kits  
- Time-to-market/Design-to-cost  
| 12:00 | Performance study of a PMSM with molded stator and composite housing  
- Design of the permanent magnet synchronous motor with internal slot cooling  
- Benefits and challenges of the slot cooling  
- Use of high volume production capable processes and materials  
- Results from the test bench validations  
**Steffen Reuter, M. Sc.**, Group Leader Design, Fraunhofer Institut für Chemische Technologie, Karlsruhe, co-author: Hendrik De Keyser, Vyncolit N.V. Gent, Brussels, Belgium |

**Room New York**

**New series solutions**  
**Session chair:** Konstantin Neiß, Mercedes-Benz  

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| 11:30 | Ford mach-e electric drive unit  
- In-line battery electric vehicle primary drive unit  
- Advanced propulsion technology  
- Compact in-line primary drive unit for an all new electric vehicle architecture  
**Gregory Gardner, M. Sc.**, Chief Engineer Transmission and Driveline Engineering, Ford Motor Company, Michigan, USA |
| 12:00 | The front axle drive of the MEB – Volkswagen has expanded its Drive portfolio  
- Volkswagen MEB  
- Electrical drive  
- Vehicle design  
- Component design  
**Peter Lück**, Head of Electrified Engines, co-authors: Dr. rer. nat. Karsten Bennewitz, Dr. Jonas Tousen, Dr. Johannes Peter, all Volkswagen AG, Braunschweig, Germany |

www.vdi-wissensforum.de/01TA105020
12:30  
**ACeDrive – electric drive with double power density and improved efficiency**  
- Advanced EM and PE cooling for higher peak and nominal power  
- SiC MOSFETs and variable high frequency switching strategy for best PE efficiency  
- Integrated cooling and lubrication system for compact design and minimal churning losses  
- Optimized system topology and control for highest power density and best cycle efficiency  
**Dipl.-Ing. Theodor Gassmann**, Director Advanced Engineering GKN ePowertrain, co-authors: John Foulsham, Sean Worrel, Ian Stone, all GKN Driveline International GmbH, Lohmar, Germany

13:00  
**Time for Business Lunch** – Meet & Greet in the exhibition area, DritevLab and car presentation

14:30  
**Wide range investigation for concept finding of battery electric vehicles**  
- Vehicle configuration assessment and optimization  
- Establishment of technical definition of new powertrains and product line-up  
- Quick evaluation of different driveline concepts based on standardized models and data sets  
- Trade-off between electric energy consumption, vehicle performance and costs  
**Dipl.-Ing. Adrien Balihe**, Senior Analysis Engineer, Software Services, co-author: Dipl.-Ing. Thomas Resch, both AVL List GmbH, Graz, Austria

15:00  
**Design of reduction system for an electric vehicle different electric motors**  
- System design of a drive system under consideration of an electric motor  
- Derivation of a load spectrum for specific applications  
- Evaluation of the system under consideration of the electric motor and gearbox  
- Use of powder metal components in these systems  
**Mayuvurunaan Kanasamoorthy, M. Sc.,** Project Engineer, co-author: Dr.-Ing. Philipp Kauffmann, both Stockpile Powertrain International GmbH, Aachen, Germany

15:30  
**Reliability-oriented lifetime verification and validation method exemplified by optimized electrified drivetrain**  
- Introduction of high integrated modular system for flexible, cost-effective fulfillment of customer requirements  
- Showing the interaction of the modules in an electrified axle, taking fatigue strength into account  
- Deriving a method for testing a modular system and a customer-specific electrified axle  
**Christian Kajinski, M. Sc.,** Design Engineer EPSS Simulation, co-authors: Dipl.-Ing. Marc-André Fiedler, both hofer powertrain GmbH, Stuttgart, Prof. Dr. techn. Mario Hirz, Institut für Fahrzeugtechnik/FTG, Technische Universität Graz, Austria

15:45  
**2020 – 2025 – 2030: Challenges for technology, market and society**  
- Dr. Marie-Luise Wolff, CEO, Entega, Darmstadt, Germany
- Christian Müller, Managing Director Engineering, Opel Automobile GmbH, Rüsselsheim, Germany
- Dr. Wolfgang Bernhart, Senior Partner, Roland Berger, Stuttgart, Germany
- Director of the Senate Martin Huber, Director-General of Transportation and Highways, Ministry of Economic Affairs, Transportation and Innovation, Free and Hanseatic City of Hamburg, Germany
- Prof. Dr.-Ing. Lutz Eckstein, Director Institute of Automotive Engineering (ika), RWTH Aachen University, Aachen, Germany
- Moderator: Guido Reinking, technical journalist

16:00  
**Room New York**

**Plenary discussion**

**16:45**  
**2020 – 2025 – 2030: Challenges for technology, market and society**  
- Dr. Marie-Luise Wolff, CEO, Entega, Darmstadt, Germany
- Christian Müller, Managing Director Engineering, Opel Automobile GmbH, Rüsselsheim, Germany
- Dr. Wolfgang Bernhart, Senior Partner, Roland Berger, Stuttgart, Germany
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- Prof. Dr.-Ing. Lutz Eckstein, Director Institute of Automotive Engineering (ika), RWTH Aachen University, Aachen, Germany
- Moderator: Guido Reinking, technical journalist

18:00  
**End of the 1st conference day**

18:30  
**Dritev Football Summer Night**

You can look forward to a wonderful evening in the spirit of the European Football Championship. Enjoy the last group game of the German football team and the summer ambience with good food and music. Make new contacts in an informal setting and meet old friends and new colleagues.
### Next Generation E-Drive
**Session chairs:** Dr. Andreas Fink, ZF Friedrichshafen

- **08:45** Development and test of an electric drive unit for passenger cars using high-speed-motors
  - Increase power density through increase of rotational speed up to 30,000 rpm, advantages
  - Presentation of problems and solutions in the development of a high-speed e-motor
  - Development of a fitting transmission, gear mesh, lubrication, cooling, bearings
  - Development of a fitting power inverters based on SiC-semiconductors
  - Presentation of test results of e-motors and EDU system, integration in a test vehicle
  **Dipl.-Ing. Mathias Deiml,** Department Manager E-Drive-System, AVL Software and Functions, Regensburg, Germany, co-author: Henrik Dhejne, AVL List GmbH, Graz, Austria

### New series solutions
**Session chairs:** Dipl.-Ing. Georg Bednarek, Opel

- **Consistently quattro**
  - 40 years of quattro – from past to present
  - Concepts of electric driving systems
  - Sporty. Save. Consistent. – The future of electric mobility
  **Dipl.-Ing. (FH) Ludwig Wittmann,** Head of R&D BEV-Transmissions, co-authors: Dipl.-Ing. (FH) Maximilian Wolf, Dr.-Ing. Michael Wein, all Audi AG, Ingolstadt, Germany

### Concepts for future e-drives
- **09:15** Concepts for future e-drives
  - 800 V voltage level as an enabler for fast charging
  - Benefits of SiC inverter technology
  - Systemdesign with multispeed transmissions for highest efficiency
  - Systemintegration for highest installation space requirements
  **Dr. Stephan Demmerer,** Head of Advanced Engineering E-Mobility, ZF Friedrichshafen AG, Friedrichshafen, Germany

### Coupled topology optimization of an electric drive
- **09:45** Coupled topology optimization of an electric drive
  - Development of an rotor for an electric drive with reduced magnet material using an innovative topology optimization method
  - Validation of the obtained design concerning the specifications of an electrical drive
  - Construction of a prototype for experimental testing
  - Comparison between simulation and experimental results
  **Dr.-Ing. Steffen Rothe,** Development Engineer Calculation, co-authors: Dr.-Ing. Bettina Schröder, Dr.-Ing. Georg-Friedrich Lührs, all Volkswagen AG, Baunatal, Germany

### Advanced integrated eDrive system for premium global OEM
- **10:15** Advanced integrated eDrive system for premium global OEM
  - New system provides zero-emissions plug-in hybrid capability to a new 2020 OEM premium PHEV
  - eDrive system provides up to 2900Nm of additional torque at rear axle
  - World-first eDrive disconnect application in combination with a park lock system allowing full zero-emissions operation
  - New System features lighter, more compact, more efficient GKN Automotive technologies for brand-aligned AWD performance
  **Dr.-Ing. Thomas Pullen,** Chief Engineer, Hybrid & eDrive | GKN ePowertrain, co-authors: Achim Schmeink, Colin Zaers, all GKN Driveline International GmbH, Lohmar, Germany

### Evolution of the drivetrain and high voltage system in the new Corsa-e
- **11:00** Evolution of the drivetrain and high voltage system in the new Corsa-e
  - Essential technical changes from Ampera-e to Corsa-e
  - Optimized HV system
  - Industrialization strategy for higher production volume
  - Energy use cases for the new Corsa-e
  **Dr.-Ing. Peter Ramminger,** Chief Engineer and Program Manager, Opel Automobile GmbH, Rüsselsheim, Germany

### Plenary speeches

#### 11:00 Audi Denkwerkstatt: Which learnings could be transferred from agile start-ups to powertrain world?
- Audi Denkwerkstatt – the idea behind
- Development conditions for radical innovation
- Examples of different products which were developed by crossfunctional teams within 23 weeks
- Learnings from start-ups, agile working and requirements for leadership
  **Dr.-Ing. Matthias Brendel,** Head of Audi Denkwerkstatt, Audi AG, Berlin, Germany

#### 11:30 Future trends on battery systems – Ready for the next generation
- Changes in the automotive industry
- History of Volkswagens e-mobility
- Requirements on next battery systems
- The new modular kit, the MEB
  **Dr.-Ing. Holger Manz,** Head of Development Energy Supply and High Voltage systems, Volkswagen AG, Wolfsburg, Germany
12:00 BP energy outlook and low carbon roadmaps
- BP’s outlook of energy demand to 2040: energy demand and reduction of overall carbon emissions (scenarios, key uncertainties)
- Lower carbon roadmap options for energy, fuel and lubricant products
Dr. David Hall, Distinguished Advisor, Advanced Technology Products, BP International Limited, Pangbourne, Great Britain

12:30 Time for Business Lunch – Meet & Greet in the exhibition area, DritevLab and car presentation

14:00 48 V system optimization opportunities enabled by mainstream applications
- Requirements and concepts for electrical systems
- Why 48 V?
- Ford’s 48 V mild hybrid architecture
- Next generation 48 V systems

14:30 EMBATT – a new full integrated battery design
- EMBATT as a new approach uses large-scale, planar-type lithium-ion batteries
- Basic research topics, i.e. material selection, integration of solid electrolytes or design of the current collectors
- Applied science investigations like cooling design, development of production line equipment and recycling aspects
- Outlook of the next development steps
Dipl.-Ing. Dipl.-Wirt.-Ing. Karsten Müller, Senior Vice President System Integration and Energy Management, co-authors: Dipl.-Ing. Michael Clauss, Björn Pohle, M. Sc., all IAV GmbH, Gifhorn, Germany

15:00 How new thermal fluids improve battery performance in EVs can
- CFD modeling of indirect and direct cooling
- New battery demonstrator for validation of CFD modeling
- Fire safety confirmed by results in abuse tests
- Potential to rethink system integration
Dr. Volker Null, Technology Manager Thermal Fluids, Shell Global Solutions (Germany) GmbH, Hamburg, Germany

15:30 Achieving higher power density in xEV applications
- Introduction to EVs and their need for auxiliary systems (OBC, DC/DC, HV-LV DC/DC)
- Role of OBCs and DC/DCs in EVs
- Circuit topology and detailed descriptions of OBCs and DC/DCs
- Compact and efficient solutions of OBC and DC/DC design using automotive power modules (APM)
- Evolution of PFC stage (interleaved boost PFC, bridgeless, bridgeless totem pole)
- Introduction of the ZVS topologies using WBG devices
Dr. Andrea Colognese, Automotive EMEA PSG Business Development Manager, Application and Marketing, ON Semiconductor, Aschheim–Dornach, co-author: John Grabowski, BSEE, both ON Semiconductor, Ann Arbor, USA

16:00 Change to the plenum (Room New York)

16:05 Conclusion of the congress (Room New York)

16:15 Awarding of the Best Presentation Award for Junior Engineers (Room New York)

16:30 End of the congress
VDI Workshops
Tuesday, 23 June 2020, 09:00 – 17:00, Maritim Hotel Bonn

NVH im elektrifizierten Antriebsstrang

Ihre Leitung: Mario Schwalbe, Teamleiter NVH, IAV GmbH, Stollberg

Inhalte des Spezialtages
• Grundlagen Geräusche, Vibration und Schwingungen
• NVH in der Fahrzeugakustik
• Anregung, Schwingungsentstehung und Übertragungspfade im Elektromotor und in der Verzahnung
• Mehrkörpersimulation zur Berechnung von körperschalldrelevanten Größen
• Finite Elemente Methode zu Bestimmung von luftschalldrelevanten Größen
• Der digitale Zwilling im NVH-Kontext

Hochdrehzahlantriebe zur Realisierung hoher Leistungsdichten

Ihre Leitung: Dipl.-Ing. Sascha Ott, Mitglied der Institutsleitung und Geschäftsführer, IPEK – Institut für Produktentwicklung und KIT-Zentrum Mobilitätssysteme, Karlsruher Institut für Technologie (KIT)

Inhalte des Spezialtages
• Chancen und Risiken beim Einsatz hochdrehender Antriebe
• Veränderung der Ursachen-Wirkungsketten durch hohe Drehzahlen
• Veränderung von Anforderungen an verschiedenen Komponenten des Antriebssystems
• NVH-Verhalten und Geräuschproblematiken

Chancen für die agile Systementwicklung durch ASD-Agile Systems Design

Ihre Leitung: Florian Marthaler, M. Sc., Leiter, Forschungsgruppe, Entwicklungsmethodik und Entwicklungsmanagement, IPEK – Institut für Produktentwicklung, Karlsruher Institut für Technologie (KIT)

Inhalte des Spezialtages
• Agilität in der Antriebssystemtechnik: Chancen, Herausforderungen und Lösungen für die Praxis durch ASD – Agile Systems Design
• Typische Aktivitäten, Situationen und Aufgaben in der Antriebssystemtechnik identifizieren, kategorisieren und priorisieren
• Identifikation von Hemmnissen beim gezielten Einsatz von Agilität zur Aufgabenbewältigung
• Ausarbeitung von Lösungen zur Überwindung der Hemmnisse durch die Prinzipien des ASD – Agile Systems Design

Accompanying events

20th International VDI Congress
Dritev
June 24 and 25, 2020, WCCB, Bonn

Main topics:
• New series solutions from international OEs
• Integration of regulatory measures in the development
• Optimized mechanical components for hybrids and electric drives
• Concepts for conventional and electrified drives
• Data optimized development methods

Chairman:
Dipl.-Ing. Matthias Zink, CEO Automotive, Schaeffler AG, Bühl

With presentations given by:
Audi | BMW | BorgWarner | Daimler | Ford | GKN | Honda | Hyundai Transys | Magna | Opel | Porsche | Schaeffler | Subaru | Toyota | Valeo | Vitesco | VW | ZF

6th International VDI Conference
“Powertrain Systems in Mobile Machines”
June 24 and 25, 2020, WCCB, Bonn

Main topics:
• European regulations in the off-highway sector: emissions, technical rules, examples
• Opportunities for electrified off-road applications: Li-ion battery, fuel cell, hybrid systems
• Modular solutions for traction and process drives
• Increased efficiency through digitization: real-time data acquisition, predictive maintenance, driving analysis
• Intelligent driving strategies through AI
• Reports on innovative drive systems from the Agricultural & Construction industries

Chairman:
Prof. Dr. Ludger Frerichs, Director, Institute of mobile machinery and industrial vehicles, TU Braunschweig

With presentations given by:
AGCO | AVL List | AVL Tractor Engineering | ContiTech Antriebssysteme | Dana | John Deere | Liebherr Mischtechnik | Still | Umweltbundesamt | ZF Friedrichshafen | Wacker Neuson

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EDrive interactive – New ideas, more added value for your business

DritevLab
Gather hands-on experience in the powertrain world!
The following drive modules will be exhibited, stripped down into subassemblies (February 2020):
- Porsche Taycan two-speed transmission
- Opel 6 speed manual transmission MB6
- Audi e-tron Schaeffler rear-axle drive EQ400-1K
- ZF hybrid transmission 8P75PH

Dritev Football Summer Night
Your networking hotspot for the international powertrain community
This is where the who’s-who of the international developer community meets. Meet old colleagues and project partners and use the informal atmosphere to get to network anew.

Speakers Corner
Direct any questions you might have to the powertrain system experts
Do you still have any unresolved questions? You are welcome to turn to our speakers who will address your concerns at the speakers corner following the sessions. It is located on the Rhine floor – straightforward, subject-specific, instantaneously.

Car Presentation
Powertrain systems with an emotional appeal
Be it a standard vehicle, a fancy roadster or a real headturner – they all need to be presented to their audience in their own specific way, no matter how perfect the drive unit. Learn about current vehicle concepts and ask the experts at the congress about the vehicles’ characteristic features and how the specific drive solutions have been integrated.

Exhibition & Sponsorship
If you want to meet with and reach out to first-rate experts and powerfully present your products and services to the well-informed community of the three conferences participants, please contact:

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Expert support from the Program Committee
1. row, f.l.t.r.
Dr. Karsten Bennewitz, Head of hybrid systems, e-traction, electrical components, Volkswagen AG, Wolfsburg, Germany
Dr. Andreas Fink, Vice President E-Mobility, Head of Business Unit Electric Traction Drive (ET), ZF Friedrichshafen, Schweinfurt, Germany
Michel Forissier, CTO, VALEO Powertrain Systems, Cergy-Pontoise, Cedex, France
Dr. Rainer Link, Senior Vice President Engineering, GKN ePowertrain, Lohmar, Germany
Dipl.-Ing. Konstantin Neiß, Director Transmission & Electric Drivetrain, Mercedes-Benz AG, Stuttgart, Germany
2. row, f.l.t.r.
Thomas Pfund, Senior Vice President R&D Automotive Systems, Schaeffler Automotive Buehl GmbH & Co., Bühl, Germany
Dr. Andreas Schamel, former Director Global Powertrain Research & Advanced, Ford-Werke GmbH, Aachen, Germany (Chairman)
Ralf Schmid, Executive Vice President Electrification, Robert Bosch GmbH, Stuttgart, Germany
Wolfgang Stephan, CTO, hofer AG, Nürtingen, Germany
Prof. Dr.-Ing. Peter Tenberge, Director, Head of Chair of Industrial and Automotive Drivetrains, Ruhr University Bochum, Germany

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Please register for (Price per Person plus VAT):

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Please select only one workshop – Be aware that the workshops are only held in German.

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Venues:  
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Workshops: Maritim Hotel Bonn, Godesberger Allee, 53175 Bonn, Germany. Phone: +49 228/8108-0, Email: info.bon@maritim.de

Accommodation: A limited number of rooms have been reserved for the benefit of the conference participants. A reservation form can be found at www.edrive-congress.com

More hotels close to the conference venue may be found via our HRS service, www.vdi-wissensforum.de/hrs

Information: The price includes the compendium (e-book), coffee breaks, beverages during breaks; lunches and the evening reception (conference).