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AVL is the world’s largest independent technology partner for the development, simulation and testing of powertrain systems as well as innovative automotive solution concepts.

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Dear participants,

Welcome to the 42nd International Vienna Motor Symposium, which will take place as a virtual live event from 29 - 30 April 2021.

We look forward to your participation and would like to inform you below about the event:

Please find the **programme** of the Virtual Vienna Motor Symposium on the following pages and space for your notes on the last pages. In addition to the **48 lectures** in the 14 moderated sessions, broadcast live from the “Festsaal” and “Zeremoniensaal” studios, **further 28 lectures** are available in the form of video-on-demand contributions.

The lecturers, all experts in their fields, will present the latest developments, trends, and perspectives in automotive technology. The transformation of the powertrain technology will be omnipresent.

You can also visit the **virtual exhibition** of well-known companies and organizations on the virtual symposium platform.

Please take an **active part** in the event. We look forward to your **questions directly** after the presentations via chat function or in the Speakers Corner. Please contact the virtual exhibitors who will be happy to inform you about their products.

Did you miss a lecture or want to hear a lecture a second time? No problem, you will find the live stream of the event on the Virtual Motor Symposium platform until the end of July 2021. The videos and the digital documents are also available to you for a further 12 months.

We wish you an exciting and interesting event and look forward to your active participation.

Best regards

Univ.-Prof. Dr. Bernhard Geringer
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<td>08:45</td>
<td>OFFICIAL OPENING</td>
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<td>09:00</td>
<td>PLENARY OPENING SESSION</td>
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<td>09:00</td>
<td>Chairman: Univ.-Prof. Dr. B. Geringer, Vienna University of Technology</td>
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<td>09:00</td>
<td>Dipl.-Ing. Markus Duesmann, Chairman of the Board of Management and Board of Management Member for Product Lines, AUDI AG, Ingolstadt: The Next 50 Years of “Vorsprung durch Technik” – How Audi Is Shaping the Mobility of the Future</td>
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<td>09:20</td>
<td>Dr. Stefan Hartung, Member of the Board of Management, Chairman Business Sector Mobility Solutions, Robert Bosch GmbH, Stuttgart: Powertrains of the Future: How We Will Meet our Climate Goals through Technology Neutrality</td>
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<td>09:40</td>
<td>Uwe Wagner, Chief Technical Officer, Schaeffler AG, Herzogenaurach: System Competence Enables Innovative Powertrain Solutions – How a Supplier Drives the Technical Transformation in Automotive</td>
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<td>10:00</td>
<td>Discussion of the lectures in this session</td>
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Coffee Break

**HYDROGEN COMBUSTION ENGINES IN COMMERCIAL VEHICLES**

Chairman: Univ.-Prof. Dr. H. Eichlseder, Graz University of Technology

Dipl.-Ing. R. Dreisbach, Dipl.-Ing. A. Arnberger, Dipl.-Ing. A. Zukancic, Dipl.-Ing. M. Wieser, N. Kunder MSc, Dr.-Ing. M. Plettenberg, Ing. Dipl.-Ing. [FH] Dipl.-Ing. B. Raser, AVL List GmbH, Graz; Univ.-Prof. Dr. H. Eichlseder, Graz University of Technology:

*The Heavy-Duty Hydrogen Engine and its Realization until 2025*

Dipl.-Ing. T. Korn, R.-F. Nobile, D. Grassinger, KEYOU GmbH, Munich:

*Zero-Emission, Maximum Performance – The Latest Generation of Hydrogen Combustion Engines*


*The H₂ Combustion Engine – The Forerunner of a Zero Emissions Future*

Dr.-Ing. L. Virnich, Dipl.-Ing. B. Lindemann, Dr.-Ing. M. Müther, Dr.-Ing. J. Schaub, Dr.-Ing. V. Huth, Dr.-Ing. J. Geiger, FEV Europe GmbH, Aachen:

*How to Improve Transient Engine Performance of HD Hydrogen Engines while Maintaining Lowest NOₓ Emissions*

**NEW S.I. ENGINES**

Chairman: Univ.-Prof. Dr. G. Hohenberg, Darmstadt University of Technology

Y. Tsuchiya, K. Matsuoka, S. Kiga, Nissan Motor Co., Ltd., Kanagawa, Japan:

*The New Nissan VC-TURBO (Variable Compression Turbocharged) 1.5L 3Cyl Engine*


*SWUMBLE 3-Cylinder High Efficiency Gasoline Engine for Future Electrified Powertrains*


*The Audi 2.0 l R4 TFSI Race Engine for the DTM – Victory for Efficiency*

Lunch Break
### Thursday, 29 April 2021, Afternoon

#### FESTSAAL

**Lunch Break**

**SYNTHETIC FUELS**

*Chairman: Univ.-Prof. Dr. S. Pischinger, RWTH Aachen University*

- A. *Abdul-Manan*, Aramco Asia, Beijing, China: Synthetic Fuel: A Promising H2 Carrier for Transport Sector

- A. *Güdden* MSc, Prof. S. *Pischinger*, RWTH Aachen University;

- M. *Hultman* MSc, Dr. T. *Sarjovaara* DSc, Neste Oyi, Stockholm / Espoo: Utilizing the Full Potential of Renewable Fuels

#### ZEREMONIENSAAL

**Lunch Break**

**LIFE CYCLE ASSESSMENT OF VEHICLE POWERTRAINS / CO2 LEGISLATION**

*Chairman: Univ.-Prof. Dr. C. Beidl, Darmstadt University of Technology*

- Dr. T. *Bruckmüller*, Dr. W. *Tober*, Vienna University of Technology: Life Cycle Assessment for Vehicle Fleets – Combination of Life Cycle Assessment and Emissions Forecast for Overall Environmental Assessment of Existing and Future Alternative Powertrains and Fuels


- Dr. N. *Steininger*, Dr. D. *Savvidis*, European Commission, Brussels: Heavy Duty Vehicles GHG Legislation Paving the Way towards Decarbonisation of Transport

- Dr. D. *Bothe*, T. *Steinfurt*, Frontier Economics, Cologne; D. *Goericke*, FVV e.V., Frankfurt: Taking a Systemic View – A Sustainable Mixture of Drive Technologies Must Be Based on Fundamental Facts and Has to Consider the Full Product Life Cycle

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*Note: The时间和内容可能会有微小的差异，请以实际为准.*
NEW C.I. ENGINES
Chairman: Univ.-Prof. Dr. M. Bargende,
University of Stuttgart

The New General Motors 2.0L Diesel 4-Cylinder Engine

Dipl.-Ing. C. Helbing, Dipl.-Ing. M. Köhne, Dr.-Ing. T. Kassel, Dipl.-Ing. T. Herbst, Dipl.-Ing. B. Wietholt, Dipl.-Ing. J. Schleyer, S. Kraus MEng, Volkswagen AG, Wolfsburg; Dr.-Ing. M. Düsterhöft, Dr.-Ing. A. Greonendijk, Dr.-Ing. S. Büchner, J. Stroscherer BSc, Volkswagen AG Nutzfahrzeuge, Wolfsburg:
Making Transport Tasks Clean and Efficient – The New TDI Engines in the Volkswagen Commercial Vehicles

Dipl.-Ing. J. Lehmann, R. Aneja MSME, Dr.-Ing. P. Kožuch, J. Barton MSME, Daimler Truck AG, Stuttgart / Detroit, USA:
Detroit DD15 – The New Heavy-Duty Truck Engine from Daimler Truck AG

BATTERY STORAGE
Chairman: Univ.-Prof. Dr. G. Brasseur, Graz University of Technology

Dipl.-Ing. M. Liebl, Miba Friction Holding GmbH, Laakirchen; T. Haidwagner MSc, Dipl.-Ing. F. Pöhn, Dipl.-Ing. Dr. A. Sonnleitner, Miba eMobility GmbH, Laakirchen; Dipl.-Ing. [FH] S. Gaigg, Voltlabor GmbH, Bad Leonfelden / Miba eMobility GmbH, Laakirchen:
Miba FLEXcooler® – Next Level Battery Cooling Technology

Dipl.-Ing. P. Krammer, Dr.-Ing. M. Thoennes MBA, Dr. P. Karayaylali, Dipl.-Ing. C. Cotte, Dipl.-Ing. F. Greber, Faurecia, Augsburg / Bavans:
Cost-Efficient Battery System with Integrated High-Performance Thermal-Management

Dr. P. Schuhmacher, BASF, Iselin, USA:
BASF’s Cathode Active Materials – We Reduce the Carbon Footprint of Electric Vehicles for a Sustainable Europe
Friday, 30 April 2021, Morning

**FESTSAAL**

**HYDROGEN POWERTRAINS**
Chairman: Univ.-Prof. Dr. H. Eichlseder, Graz University of Technology


Dr.-Ing. A. **Kufferath**, Dr.-Ing. E. Schünemann, Dr.-Ing. Michael Krüger, Dipl.-Ing. Martin Krüger, Robert Bosch GmbH, Stuttgart; Dr. S. Jianye, United Automotive Electronic Systems Co. Ltd., Shanghai, China; Univ.-Prof. Dr. H. Eichlseder, Graz University of Technology; Prof. Dr. sc. techn. T. Koch, Karlsruhe Institute of Technology (KIT): H₂ ICE Powertrains for Future On-Road Mobility


**ZEREMONIENSAAL**

**ENGINE CONCEPTS / ENGINE CONTROL**
Chairman: Assoc. Prof. Dr. P. Hofmann, Vienna University of Technology

S. Choi PhD, H. Im MSc, K. Choi MSc, Hyundai Kia Motor Group, Namyang, South Korea; S.-J. Kim MSc, Vitesco Technologies GmbH, Regensburg; B. Varoquie PhD, Vitesco Technologies, Toulouse: In-Cylinder Pressure Based Gasoline Engine Combustion Control

G. Signorelli PhD, A. Cavani MSc, M. Petrone MSc, S. Petrecchia MSc, Marelli Europe, Bologna; M. Nishida MSc, Mazda Motor Corporation, Hiroshima, Japan: GDI Very High Pressure Injector for High Compression Gasoline Engine

Dipl.-Ing. (FH) M. Graz, F. Obrist, Dipl.-Ing. P. Zanolin, Dipl.-Ing. (FH) O. Obrist, Obrist Powertrain GmbH, Lustenau: ZVG (50kWe) The Vibration Free, Emission Minimized and Sustainable Solution for an Electrified Future

Dr. A. Bisenius, J. Groß MSc, Dipl.-Ing. M. Hackmann, Dipl.-Ing. J. Schenk, Dipl.-Kfm. Techn. R. Stanek, P3 automotive GmbH, Düsseldorf / Munich / Stuttgart: The CO₂ Footprint in the Life Cycle of Passenger Cars – A Comparison of Hybrid, Plug-In and Electric Vehicles with a Detailed Consideration of Battery Production and the Country-Specific Energy Mix
### HYBRID SYSTEMS
**Chairman:** Univ.-Prof. Dr. W. Eichlseder, Montanuniversitaet Leoben

- **Dr.-Ing. K. Sabzewari,** M. Vieracker, J. Hofstetter, P. Meerbrei, Vitesco Technologies, Regensburg / Nuremberg: *PlugIn for All – Cost Efficiency for PHEV Powertrain Based on Dedicated Hybrid Transmission*

- **Dr.-Ing. T. Uhlmann,** Dr.-Ing. N. Alt, Dr.-Ing. D. Lückmann, Dr.-Ing. A. Balazs, Dipl.-Ing. P. Zwar, Dipl.-Ing. A. Müller, Dr.-Ing. M. Thewes, J. Frese BSc, FEV Europe GmbH, Aachen: *xHEV Concept Achieving 2030 CO₂ Targets*

- **I. Scholten,** S. Li, Y. Liu, Dr. H. Sandquist, Dr. Y. Chen, Zhejiang Geely Holding Group, China: *Geely’s Modular Hybrid Propulsion System*

### FUEL CELL AND STORAGE
**Chairman:** Univ.-Prof. Dr. S. Pischinger, RWTH Aachen University

- **Dipl.-Ing. (FH) T. Dehne,** T. Bruhn BSc, AVL List GmbH, Graz; G. Chu BSc Eng, AVL Fuel Cell Canada, Vancouver, Canada: *Online Detection of Fuel Cell Degradation Mechanisms*

- **Dipl.-Ing. Y. Bin,** Dr. T. P. Sidiki, Dr. R. R. Janssen, DSM Engineering Materials, Geleen: *Material Solutions to Increase Tank-to-Wheel Efficiency and Life-Time Reliability of Fuel Cell Vehicles*

- **Dipl.-Ing. (FH) Dr. J. Winkthofer,** SAG Innovation GmbH, Lend: *Cryogenic Storage of Liquid Hydrogen: Opportunities and Challenges of LH2 in Heavy Duty Trucks*

- **V. Beaumesnil,** Automobile Club de l’Ouest, Le Mans; Dr. B. Niclot, Win Innovation, Paris: *Le Mans 24h Hydrogen Racing Category in 2024*
Friday, 30 April 2021, Afternoon

**FESTSAAL**

**Lunch Break**

**FUTURE VEHICLE DRIVES AND ENERGY**
Chairman: Univ.-Prof. Dr. L. Eckstein, RWTH Aachen University

Univ.-Prof. Dr. G. Brasseur, Graz University of Technology; Univ.-Prof. Dr. J. Lercher, Technical University Munich, Garching / Pacific Northwest National Laboratory, Richland, USA: New Opportunities and Constraints Emerging for Carbon-Neutral Individual Transport

Dr. G. Fraidl, Dipl.-Ing. (FH) B. Enzi, Dr. P. Kapus, Dr. C. Martin, Dipl.-Ing. (FH) M. Rothbart, AVL List GmbH, Graz: Passenger Car Powertrains and Future Energy Scenarios: From Technical Facts towards Political Reality


Dipl.-Ing. C. Helbing, Dr. rer. nat. K. Bennewitz, Dipl.-Ing. P. Lück, Dr.-Ing. J. Tousen, Dr.-Ing. J. Peter, Volkswagen AG, Wolfsburg: The e-Drive Portfolio of the MEB from Volkswagen

13:45

**DIETL EXHAUST AFTERTREATMENT**
Chairman: Dr. W. Böhme, Austrian Society of Automotive Engineers

M. Nilsson MSc, Dr. H. Birgersson, Scania CV AB, Södertälje; Dipl.-Ing. W. Müller, Umicore AG & Co. KG, Hanau-Wolfgang; Dr. P. Gabrielsson, E. Senar Serra MSc, Umicore Denmark ApS, Hørsholm: Next Generation Global Emission Solution Platform with Dual Urea Dosing – Meeting Future Emission and Efficiency Requirements

Dr. P. Mendoza Villafuerte, Dr. J. Demuynck, D. Bosteeels MSc MBA, AECC, Brussels; Dipl.-Ing T. Wilkes, Dr. L. Robb, Dr. M. Schönen, FEV GmbH, Aachen: Demonstration of Extremely Low NOx Emissions with Partly Close-Coupled Emission Control on a Heavy-Duty Truck Application

Univ.-Prof. Dr. techn. C. Beidl, Dr. J. Hipp, Darmstadt University of Technology; M. Keck, D. Knaf, BIN Boysen Innovationszentrum Nagold GmbH & Co. KG, Nagold; Univ.-Prof. Dr.-Ing. G. Hohenberg, M. Conin, IVD Deutschland GmbH, Darmstadt; J. Kreuz, Dr. U. Goebel, Umicore AG & Co. KG, Hanau-Wolfgang: 48 V Pre-Turbo-DeNOx-System for Lowest Urban Emissions

14:15

**Lunch Break**

14:45

15:15

**PLENARY CLOSING SESSION:**

Univ.-Prof. Dr. B. Stierle, Vienna University of Technology

Leading the Fast Transition to Electric Mobility

Univ.-Prof. Dr. techn. C. Beidl, Dr. J. Hipp, Darmstadt University of Technology; M. Keck, D. Knaf, BIN Boysen Innovationszentrum Nagold GmbH & Co. KG, Nagold; Univ.-Prof. Dr.-Ing. G. Hohenberg, M. Conin, IVD Deutschland GmbH, Darmstadt; J. Kreuz, Dr. U. Goebel, Umicore AG & Co. KG, Hanau-Wolfgang: 48 V Pre-Turbo-DeNOx-System for Lowest Urban Emissions

16:15

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17:15

17:45

18:00

End of Programme
PLENARY CLOSING SESSION: VIEW TO THE FUTURE
Univ.-Prof. Dr. B. Geringer, Vienna University of Technology

Thomas Stierle, Executive Vice President Electrification Technology, Vitesco Technologies, Nuremberg: Leading the Fast Transition to Electric Mobility

Dr. Torsten Eder, Chief Engineer Mercedes-Benz Drivetrains, Mercedes-Benz AG, Stuttgart: Ambition2039: Hybrid Concepts as an Integral Part of the Transformation

Dr. Oliver Blume, Chairman of the Executive Board, Dr. Ing. h.c. F. Porsche AG, Stuttgart: The Future of the Sportscar

Discussion of the lectures in this session

CLOSING ADDRESS
**ELECTRIC DRIVES**

Y. Gotoda BA, DENSO Corp., Aichi, Japan; Dipl.-Ing. (FH) U. Schwarz, DENSO AUTOMOTIVE Deutschland GmbH, Wegberg: **DENSO’s Contribution towards a CO₂ Neutral Society Using Revolutionary, Unique E-Motor Technology and Intelligent Control Strategy**

S. Morgenstern BEng, F. Colineau MSc, M. Bantz BEng, Prof. Dr.-Ing. E. Bock, Freudenberg FST GmbH, Weinheim: **Avoiding Gear and Bearing Damage with Electrically Conductive Shaft Seals in Electric Powertrain**

C. Kneissl BSc, Univ.-Prof. Dr. P. Fischer, Graz University of Technology; Dr. J. Schmid, Ing. P. Stögmüller, Dr.-Ing. H. Bauhoffer, Oberaigner Powertrain GmbH, Nebelberg: **2-Speed Transmission for E-Drives without Mechanical Synchronization and Clutch**

Dipl.-Ing. A. Sturm, Prof. Dr.-Ing. F. Küçükay, Technical University Braunschweig: **Optimal Drives for Automated HEV and BEV**

M. Younkins PhD, P. Carvell BSEE, J. Fuerst BSME MBA, Tula Technology, San Jose, USA: **Dynamic Motor Drive: Optimizing Electric Motor Controls to Improve Efficiency**

**ENGINEERING METHODS**

F. Bobrik MSc, R. Dittrich MSc, Dr.-Ing. S. Clement, AUDI AG, Neckarsulm; Dipl.-Ing. C. Doppelbauer, Dipl.-Ing. P. Zojer, Dipl.-Ing. B. Huber, MAGNA Powertrain Engineering Center Steyr GmbH & Co KG, St. Valentin: **„Road To Rig“ – Dynamic Vehicle Simulation on a High-Altitude and Climate Engine Test Bench**

Dipl.-Ing. W. Novak, Dr.-Ing. V. Hennige, AVL List GmbH, Graz; Dr.-Ing. A. Braun, L. Kallis BEng, Dipl.-Ing. E. Loechl, AVL Deutschland GmbH, Ingolstadt; Dipl.-Betriebsw. M. Neumann MBA, AUDI AG, Ingolstadt: **Battery Derivative Development Using Model Based Systems Engineering**

Dr. P. Schiggl, Dipl.-Ing. E. Bogner, Dipl.-Ing. P. Falk, Dr. P. Nitsche, Dipl.-Ing. M. Oswald, Dipl.-Ing. E. Ramschak, Dipl.-Ing. (FH) R. Vogl, AVL List GmbH, Graz: **Optimal Combination of Real and Virtual Development for Next Generation of ADAS/AD**

G. Vagnoni MSc, M. Kuipers MSc, Dr.-Ing. M. Stapelbroek, Dipl.-Wirtsch.-Ing. L. Bauer, FEV Europe GmbH, Aachen; S. Hosseineinasab MSc, M. Mirsalehian MSc, RWTH Aachen University: **Advancing Battery Safety – Detection and Prevention Measures of Thermal Propagation**
R. Mader, G. Winkler, T. Reindl, N. Pandya,
Vitesco Technologies, Regensburg / Auburn Hills, USA:
The Car’s Electronic Architecture in Motion: The Coming Transformation

Dr. G. Rösel, N. Daun, P. Mönius, G. Mühlenberg, A. Reich,
Vitesco Technologies, Regensburg / Nuremberg / Berlin:
Scalable Platform for an Efficient 400-Volt Axle Drive

ELECTRIC DRIVES IN SPECIAL VEHICLES

Dr. B. Yan, Dipl.-Ing. Z. Cao,
eKontrol GmbH, Vienna:
PowerShift Capable Electric Machines Driven Powertrain in Heavy Duty Dumper Series Use

Dipl.-Ing. M. Kirchmair MSc MBA, Dr.-Ing. A. Muigg,
PRINOTH AG, Sterzing:
ZERO EMISSION. PERFECT SLOPES. The Technology Leader PRINOTH Gives Insights to Alternative Drives of Snow Groomers

E-FUELS

Dr. A. Neumann, A. von Gregory,
Strategy Engineers, Munich;
P. Gillbrand, M. Rothbart,
AVL List GmbH, Graz:
Economic Viability of Fuel Cell-Based Long-Haul Heavy-Duty Transport: A TCO Comparison of Classical & CO₂ Neutral Propulsion Systems

Dr.-Ing. M. Walters, FEV Europe GmbH, Aachen;
S. Dirkes MSc, RWTH Aachen University:
Degradation of PEM Fuel Cells: Reducing Total Cost of Ownership by Optimization of Design and Operating Strategy of FCEVs

J. Juhl MSc, T. Rudolf MSc, L. Kohout MSc, Dr.-Ing. S. Schwab,
FZI Forschungszentrum Informatik, Karlsruhe;
Dr.-Ing. G. Dummer, IAV Antriebstechnik GmbH, Karlsruhe;
Prof. Dr.-Ing. S. Hohmann, Prof. Dr. rer. nat. W. Stork,
KIT Karlsruhe Institute of Technology, Karlsruhe:
Automated Anomaly Detection in Data Streams on Engine Test Benches Using Multi-Scale Convolutional Recurrent Encoder-Decoder

Dipl.-Ing. H. De Campos Garcia, Dipl.-Ing. A. Bacar,
F. Chopard PhD, HUTCHINSON S.A. Center of Research & Innovation, Chalette-sur-Loing; Dipl.-Ing. G. Zottor,
Dipl.-Ing. A. Baumgartner, J. Humenberger BSc,
Dipl.-Ing. (FH) P. Drage, AVL List GmbH, Graz:
Hutchinson ThermalLab™: How to Shift Vehicle Thermal Management Testing from Road to Rig

V. M. Prabhu, Prof. Dr.-Ing. S. Kowalewski,
RWTH Aachen University;
J. Vadakkepattath, Dr.-Ing. G. Keßler, Dr.-Ing. M. Jentges,
FEV Europe GmbH, Aachen:
A Lean Safety-Critical Software Development Process for Future Vehicle Application

ELECTRICAL STORAGE

Dr. T. Arping, Dr. A. Tuchlenski,
Lanxess Deutschland GmbH, Dormagen:
Engineering Plastics in the Course of Powertrain Transformation – New Challenges and Material Solutions
ELECTRICAL STORAGE

Ing. A. Kamar BSc,
Schunk Transit Systems GmbH, Wettenberg;
Dr. S. Reisinger,
Schunk Carbon Technology GmbH, Bad Goisern:
Smart Solutions for Automated Fast Charging and the Thermal Challenges in High Power Charging

ENGINE COMPONENTS

Dipl.-Ing. M. Braun, M. Becker, Dipl.-Ing. F. Heine,
KAMAX Automotive GmbH, Homberg (Ohm):
KXtreme – Future Options for the Design of High Loaded Internal Combustion Engines

Dr. M. Scheidt, Ing. P. Traversa,
Dipl.-Ing. (FH) D. Wolf, Dipl.-Ing. S. Hardes,
Schaeffler Technologies AG & Co. KG, Herzogenaurach:
Valvetrain Solutions for Flexible Engine Families – Highest Optimization Potential for Varying Use Cases

HYDROGEN COMBUSTION ENGINE / COMPONENTS

Dr. sc. techn. ETH M. A. Skopil,
Antrova AG, Stein am Rhein:
Hydrogen Engines and the New Comprex™ Pressure Wave Supercharger Concept

Dr. J. Wittmann, Global Panel Foundation, Prague:
Electric Car vs. Hydrogen Car – Acceptance of All-Electric Driving in Germany and the U.S.A. – An Explorative Youtube Study

Dipl.-Ing. R. Herdin, D. A. Herdin MSc, PGES GmbH, Vienna;
Dipl.-Ing. (FH) F. Grewe, S. Knepper MSc, 2G Energy AG, Heek:
Ready t(w)o Gas – The Hydrogen Engine with Variable Natural Gas Blending by 2G

Dr. S. Munshi, Dr. J. Huang,
Westport Fuel Systems Inc., Vancouver, Canada:
The Potential for a High Efficiency Hydrogen Engine Using Westport Fuel Systems’ Commercially Available HPDI Fuel System

ZERO IMPACT EMISSIONS

Dr.-Ing. Michael Krüger, Dipl.-Ing. Martin Krüger,
Dr.-Ing. A. Kufferath, Dipl.-Ing. D. Naber,
Dr.-Ing. E. Schünemann, Robert Bosch GmbH, Stuttgart:
Future Euro 7 / VII Powertrains: Challenges and Feasibility

J. Herrmann MSc, Dr.-Ing. G. Hagen, Dr.-Ing. J. Kita,
Prof. Dr.-Ing. R. Moos, University of Bayreuth;
Dipl.-Ing. D. Bleicker, Dipl.-Ing. F. Noack,
CPK Automotive GmbH & Co. KG, Münster:
Concept of a Multi-Gas Sensor to Meet the Strictest Emission Requirements for Combustion Engines
Organizer:
Austrian Society of Automotive Engineers (ÖVK)
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