Tuesday 18th March 2014

8:00 Registration/Signing-in

KÖNI G-KARL-HALLE 2ND FLOOR

9:00 Welcome Prof. Dr. Hans-Christian Reuss, Chairman of the Board of Management FKFS, Managing Director IVK, University of Stuttgart.

Opening Address Prof. Dr. Wolfram Ressel, Rector of the University of Stuttgart.

9:15 Shaping the Future – Innovations for Mobility Solutions Dr. Volkmar Denner, Chairman of the Board of Management, Robert Bosch GmbH.

CO₂: Automotive Industry takes the Challenge Dr. Jean-Michel Billig, Executive Vice President – Engineering & Quality, Renault SAS

10:30 Coffee break

KÖNI G-KARL-HALLE 2nd floor
MEIDINGER-SAAL 1st floor
BERTHA-BENZ-SAAL 1st floor
REUTLINGEN ROOM 2nd floor
KARLSRUHE ROOM 1st floor
MANNHEIM ROOM 1st floor

11:00 Innovative Vehicles
CI Engines - Components pg. 8
Batteries pg. 8
Driving Dynamics I pg. 9
Electrical Power Management pg. 9
Production + Design I pg. 9

12:30 Lunch break

14:00 Advanced Driver Assistance Systems I
Hybrid I pg. 8
SI Engines - Ignition pg. 8
Driving Dynamics II pg. 9
FVV Projects pg. 9
Production + Design II pg. 9

15:30 Vehicle layout
Emissions I pg. 10
Power Supply Network pg. 10
Energetic Efficiency pg. 11
Software Processes pg. 11
Railway Vehicles pg. 11

18:00 End of the parallel sections

19:00 Social evening to take place in the »Alte Stuttgarter Reithalle« pg. 11

Wednesday 19th March 2014

KÖNI G-KARL-HALLE 2nd floor
MEIDINGER-SAAL 1st floor
BERTHA-BENZ-SAAL 1st floor
REUTLINGEN ROOM 2nd floor
KARLSRUHE ROOM 1st floor
MANNHEIM ROOM 1st floor

8:30 E-Mobility
Driving Comfort pg. 12
Emissions II pg. 12
Alternative Powertrain + Small Engines pg. 13
Tyres pg. 13
Spitzencluster pg. 13

10:00 Coffee break

10:30 SI Engines
Hybrid II pg. 12
Aerodynamics I pg. 12
Electronic Architecture pg. 13
Simulation + Analysis I pg. 13
Vehicle Acoustics pg. 13

12:30 Lunch break

13:30 CI Engines
Vehicle Concepts pg. 14
Aerodynamics II pg. 14
Advanced Driver Assistance Systems II pg. 15
Simulation + Analysis II pg. 15
Drivertrain Testing pg. 15

15:00 Coffee break

KÖNI G-KARL-HALLE 2nd floor

15:30 Panel discussion »Renewable energies and future mobility«

Keynotes:
Franz Untersteller MdL, Minister for the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg
Prof. Dr. Herbert Kohler, Vice-President Group Research and Sustainability Daimler AG

Participants:
Prof. Dr. Lino Guzzella, Rector of ETH Zürich
Margret Hucko, Editor of Auto-Ressort SPIEGEL ONLINE GmbH
Prof. Dr. Herbert Kohler, Vice-President Group Research and Sustainability Daimler AG
Birgit Primer, Deputy Editor-in-Chief auto motor und sport
Franz Untersteller MdL, Minister for the Environment, Climate Protection and the Energy Sector Baden-Wuerttemberg
Dr. Wolfgang Warnecke, Shell Chief Scientist Mobility

Moderation:
Dietmar Goericke, Managing Director FVV e.V.

16:30 Keynote Silke Krebs, Minister in the State Ministry Baden-Wuerttemberg

16:45 Closing remarks Prof. Dr. Jochen Wiedemann, Board of Management FKFS, Professor of Automotive Engineering IVK, University of Stuttgart

17:00 End of the event
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>9:15</td>
<td>Plenary session (see Overview pg. 7)</td>
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<td>10:30</td>
<td>Coffee break</td>
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<tr>
<td>11:00</td>
<td><strong>Innovative Vehicles</strong></td>
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<td>Chairperson: Prof. Dr. Frank Gauterin</td>
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<td><strong>Cl Engines - Components</strong></td>
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<td>Chairperson: Prof. Dr. Wolfgang Thiemann</td>
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<td><strong>Batteries</strong></td>
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<td>Chairperson: Prof. Dr. Werner Tillmetz</td>
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| 11:00  | Urban EV Project Visio.M / Concept Highlights and latest Prototype Test Results  
        | Stefan Riederer, BMW Research and Technology                             |
| 11:00  | Advanced diesel fuel injection equipment... a never ending BOSCH story    
        | Jürgen Hammer, M. Raff, D. Naber, Robert Bosch GmbH                      |
| 11:30  | Power and efficiency - Technical solutions for high-performance sport cars to achieve future CO₂ limits  
        | Bernhard Bihl, G. Pieraccini, H. Hofmann, S. Freudenstein, Bosch Engineering GmbH |
| 11:30  | Air Intake Module with cascaded integrated indirect charge air cooling for car diesel engines  
        | Simon Schneider, J. Stehlig, A. Eilemann, MAHLE Behr GmbH & Co. KG       |
| 12:00  | »e-generation« - key technologies for the next generation of electric vehicles  
        | Michael Dimitrov, Dr. Ing. h.c. F. Porsche AG                             |
| 12:00  | Thermal management for a light-duty-vehicle with diesel engine: Evaluation of an optimized cooling system with variable cooling components  
| 12:00  | Development of Active Battery Management System for Test Car and Test Results  
        | Dan Jiang, M. Hübner, HTW Dresden                                        |
| 12:30  | Lunch break                                                              |
| 14:00  | **Advanced Driver Assistance Systems I**                                 |
|        | Chairperson: Prof. Dr. Tobias Flämig-Vetter                              |
| 14:00  | Ego-motion estimation in urban areas                                     
        | Claudia Gläser, L. Bürkle, F. Niewels, Robert Bosch GmbH                 |
| 14:00  | Emission Optimal Hybrid Vehicle Operation with Thermal Exhaust Model     
        | Florian Kunkel, R. Isermann, IAT, TU Darmstadt                           |
| 14:30  | New working model for collaboration of OEM and supplier in development of advanced driver assistance functionalities for series production  
        | Ulrich Zoelch, C. Dorfer, M. Krenn, M. Peller, P. Varadi, BMW AG; D. Böttcher, J. Diebold, H. Stübing, Continental AG |
| 14:30  | Model-based design of hybrid electrical vehicle devices using automated optimization strategies  
        | Johannes Frieba, T.-S. Dao, Maplesoft GmbH; C. Schwarz, ISKO engineers AG |
| 15:00  | An efficient environment model for automated driving functions           
        | Ralph Grewe, A. Hohm, S. Lüke, Continental AG                             |
| 15:00  | Definition and Implementation of a Benchmarking in order to derive Success Factors of Hybrid Power Trains  
        | Kevin Matros, A. Albers, M. Behrendt, F. Brügger, B. Steiger, IPEX, University of Stuttgart; H. Holzer, W. Bohne, BMW Group |
| 15:00  | Potential of corona ignition on CNG engines utilizing EGR                
        | Georg Rixecker, A. Schenk, V. Brichzin, BorgWarner BERU Systems GmbH; M. Becker, University of Erlangen/BorgWarner, Inc. |
9:15 Plenary session (see Overview pg. 7)

10:30 Coffee break

**KÖNIG-KARL-HALLE** 2nd floor

**REUTLINGEN ROOM** 2nd floor

**Driving Dynamics I**
Chairperson: Prof. Dr. Ferit Kücük

11:00 An effective Process for trackside Vehicle Development
Paolo Bortolussi, L. Pascali, Dr. Ing. h.c. F. Porsche AG; N. Castrup, RWTH Aachen University

11:30 Integrated vehicle dynamics control – an innovative approach for linking multiple chassis actuators
Lars König, B. Gutmayer, D. Merlein, T. Walter, Bosch Engineering GmbH

12:00 Linking of vehicle dynamics development tools and chassis systems
Jan-Hendrik Herold, FKFS; H.-C. Reuss, FKFS/IVK, University of Stuttgart; L. Pascali, Dr. Ing. h.c. F. Porsche AG

12:30 Lunch break

**KARLSRUHE ROOM** 1st floor

**Electrical Power Management**
Chairperson: Prof. Nejila Parspour

11:00 Modular Modelling of a PEM-Fuel Cell System for Automotive Applications
Raphael Hans, ETAS GmbH

11:30 Photovoltaic based inverter charger
Martin Neuburger, Esslingen University of Applied Sciences

12:00 Range extending for electric vehicle operation in urban-regional areas
Jens Bachstein, Andreas Daberko, Heilbronn University of Applied Sciences; H.-C. Reuss FKFS/IVK, University of Stuttgart

**MANNHEIM ROOM** 1st floor

**Production + Design I**
Chairperson: Prof. Dr. Rainer Gadow

11:00 Experimental study of neutral fibre shifting during hemming processes for automotive aluminium alloys
Severin Hönle, M. Liewald, IFU, University of Stuttgart

11:30 Virtual production planning and dimensional accuracy prediction of sheet metal components in the bodyshell work
Christian Kästle, Daimler AG; M. Liewald, K. Rolf, IFU, University of Stuttgart

12:00 Adaptive crash structures made of fibre reinforced plastics – Characterization and simulation
Christian Kurzbock, T. Jost, Centre of Excellence – Das virtuelle Fahrzeug Forschungsgesellschaft mbH

12:30 Coffee break

**Driving Dynamics II**
Chairperson: Prof. Dr. Oliver Sawodny

14:00 Improvement of collision avoidance systems by using a propulsion system for advanced brake performance
Sven Knecht, J. Neubeck, FKFS; J. Wiedemann, FKFS/IVK, University of Stuttgart

14:30 Torque vectoring control for in-wheel motor drive electric vehicles based on state variable feedback
Yuan Feng, Z. Yu, L. Xiong, J. Liu, Tongji University

15:00 Design of a decision maker for an evasive or braking manoeuvre
Carlo Ackermann, R. Isermann, IAT, TU Darmstadt; S. Min, C. Kim, Hyundai Motor Group

**FVV Projects**
Chairperson: Dr. Karl Kollmann

14:00 Characterisation of Gasoline Biofuels regarding Combustion Anomalies
Marco Günther, B. Morcinkowski, F. Kremer, S. Pischinger, RWTH Aachen University

14:30 In-cylinder causes of particle emissions on DISI engines
Helge Dageförde, H. Kubach, T. Koch, IFKM, Karlsruhe Institute of Technology (KIT); U. Spicher, MOT GmbH

15:00 Particle Number Measurement Techniques
Thomas Maier, G. Wachtmeister, LVK, TU Munich

15:30 Competitive Fibre Reinforced Composites with Increased Thermal Stability for Application in Exhaust Systems
Patrick Weichand, R. Gadow, IFKB, University of Stuttgart

14:00 Tribological Properties of Thermally Sprayed Cylinder Liner Coatings
Andrei Manzat, R. Gadow, IFKB, University of Stuttgart

14:30 Ductility characterisation of crash-relevant body structural parts made of aluminium
Marie-Louise Flörchinger, Graduate School of Excellence advanced Manufacturing Engineering, M. Liewald, IFU, University of Stuttgart

15:00 Competitive Fibre Reinforced Composites with Increased Thermal Stability for Application in Exhaust Systems
Patrick Weichand, R. Gadow, IFKB, University of Stuttgart

15:30 Coffee break
PROGEST QUED MU, 18TH MARCH 2014

KÖNIG-KARL-HALLE 2nd floor

**Vehicle Design**
Chairperson: Prof. Dr. Lutz Eckstein

16:00 Aerodynamics Development of Road and Racing Cars – Similarities and Differences
Jörg Müller, J. Monchaux, AUDI AG

16:30 The role of aerodynamics at Mercedes Benz
Teddy Woll, Daimler AG

17:00 Vehicle concepts of the future
Claus Ehlers, Daimler AG

MEIDINGER-SAAL 1st floor

**Emissions I**
Chairperson: Prof. Dr. Georg Wachtmeister

16:00 Advanced systems and trends for powertrain emission measurement
Masayuki Adachi, K. Ishida, HDRIBA, Ltd.

16:30 Reduction of engine out emission and fuel consumption by variable EGR distribution in diesel under varying fuel qualities
Thorsten Schnorbus, Y. Hu, T. Körfer, FEV GmbH; M. Miccio, FEV Italy S.r.l.; J. Schaub, VKA RWTH Aachen

17:00 Sensor based regeneration control of a Lean Nox Trap based on a high dynamic Nox sensor
Bernhard Breitegger, A. Beichtbuchner, AVL List GmbH; M. Kilinc, Continental Automotive GmbH; C. Doppler, Centre of Excellence – Das virtuelle Fahrzeug Forschungsgesellschaft mbH; K. Hadl, TU Graz

BERTHA-BENZ-SAAL 1st floor

**Power Supply Network**
Chairperson: Prof. Dr. Klaus Dietmayer

16:00 Online thermal monitoring for power semiconductors for power electronics of electric and hybrid electric vehicles
Manuel Warwel, G. Wittler, Esslingen University of Applied Sciences; M. Hirsch, Robert Bosch GmbH; H.-C. Reuss, FKFS/IVK, University of Stuttgart

16:30 Control concept for the electrical integration of thermoelectric generators into a vehicle power supply
Jan Hendrik Carstens, C. Gühmann, TU Berlin

17:00 Breakthrough of an electrically driven air-conditioning compressor due to 48V?
Jan Ackermann, T. Steinmetz, C. Brinkkötter, IAV GmbH; S. Hertel, Consulting4Drive; D. Kettner, A/C Innovations GmbH

17:30 48V at Mercedes-Benz – Opportunities for further applications
Michael Timmann, Daimler AG

18:00 Finish
**FROM 19.00: GALA DINNER AT THE »ALTE STUTTGARTER REITHALLE«**

**Tuesday, 18th March 2014 | 19:00: Festive Evening Reception in the »Alte Stuttgarter Riding Hall« Maritim Hotel | Seidenstraße 34 | 70174 Stuttgart**

Experience an exceptional evening of amusing entertainment.

**Program: 19:00 Champagne Reception**

**Welcome:**
Professor Michael Bargende, Board of Management FKFS and Professor of Automotive Powertrains of The Institute for Internal Combustion Engines and Automotive Engineering, IVK University of Stuttgart

Followed by dinner

**Live Act:**
Opera Nova plays Beatles songs - from Classic to Rock

**Line-Up:**
Werner Dannemann – Guitar, Vocals
Daniela Meta Epple – Mezzo-Soprano
Zorana Memedovic – Violin, Soprano
Wolfgang Schiller – Keyboards

**End around 23.00**
10:00 Coffee break

SI Engines
Chairperson: Prof. Dr. Stefan Pischinger

10:30 Gasoline engine – Fit for the future powertrain
Stefan Kampmann, R. Busch, A. Kufferath, Robert Bosch GmbH

11:00 Blue Direct – Technology for a worldwide market
Anton Waltner, F. Altenschmidt, Daimler AG

11:30 Gasoline engine – Fit for the future powertrain
Roland Sargenti, C. Hauck, W. Buck, J. Burckhardt, M. Gickeleiter, D.-G. Steinhauser, H. Kristen, Dr. Ing. h.c. F. Porsche AG

12:00 The Volkswagen WRC Engine
Donatus Wichelhaus, Volkswagen Motorsport GmbH

Hybrid II
Chairperson: Prof. em. Dr. Günter Hohenberg

10:30 Approach of a method for evaluation of hybrid drivetrains
Jörg-Michael Birkhold, J. Kerner, L. Spiegel, I. Stache, Dr. Ing. h.c. F. Porsche AG; A. Albers, IPEK, Karlsruhe Institute of Technology (KIT)

11:00 Analysis of the optimum compact-class passenger car drive-line configuration for differing usage patterns
Marco Warth, M. Bassett, J. Hall, B. Mahr, MAHLE Powertrain Ltd.

11:30 Research on the fuel-efficiency of parallel hybrid vehicles as a basis for the design of rule-based operating strategies
Daniel Görke, IVK, University of Stuttgart; M. Bargende, FKFS/IVK, University of Stuttgart; U. Keller, N. Ruzicka, S. Schmiedler, Daimler AG

12:00 Co-simulation and control oriented modelling in the development of a hydraulic hybrid powertrain
Agostino Gambarotta, P. Casoli, N. Pompini, L. Riccob, University of Parma

Aerodynamics I
Chairperson: Dr. Teddy Woll

10:30 New electrical windtunnel external balance system

11:00 Prospects of experimental aerodynamics
Andreas Dillmann, DLR, Institute for Aerodynamics and Fluid Engineering

11:30 918 Spyder – The triathlete in aerodynamics
Christian del Gaiato, H. Maier, M. Roll, Dr. Ing. h.c. F. Porsche AG
**10:00 Coffee break**

**Electronic Architecture**  
Chairperson: Prof. Dr. Clemens Gühmann

- 10:30 Real-Time Metrics for Automotive Ethernet Architectures  
  Kai Richter, S. Schlecker, Symtavision GmbH

- 11:00 High data rates and short latencies for future vehicle networks – Have conventional microcontroller concepts reached their limits?  
  Burkhard Triess, U. Lauff, ETAS GmbH

- 11:30 What CAN FD offers for automotive networking  
  Harald Eiselle, Adam Opel AG; K. P. Orlando, General Motors

- 12:00 Localising minor damages in cars by means of structure-borne sound analysis  
  Andre Kneifel, J. Harmstorf, S. Gontcharov, K.-L. Krieger, IITEM, University of Bremen; K. H. Hellbernd, Hella Fahrzeugkomponenten GmbH

**Simulation + Analysis I**  
Chairperson: Prof. Dr. Roland Baar

- 10:30 Constraints of the combustion process for a supercharged DISI-engine for applications in motorsports  
  Christian Pötsch, R. Kudicke, G. Wachtmeister, LVK, TU München; D. Wichelhaus, Volkswagen Motorsport GmbH

- 11:00 Multi-Component Modelling of Liquid Fuel for an Improved Analysis of Fuel-Dependent Processes  
  Marlene Wentsch, A. Perrone, M. Chiodi, FKFS; M. Bargende, FKFS/IVK, University of Stuttgart; D. Wichelhaus, Volkswagen Motorsport GmbH

- 11:30 Lumped-parameter modelling and analysis of automotive waste heat recovery system based on an organic rankine cycle  
  Marcello Canova, L. Fiorentini, The Ohio State University; A. Gambarotta, M. Crialesi-Esposito, University of Parma; D. Wichelhaus, Volkswagen Motorsport GmbH

- 12:00 Lean Stratified Turbocharged Gasoline Engines to Meet Emissions and Fuel Economy Targets in 2018  
  Richard Osborne, C. Rouand, K. Pendlebury, M. Keenan, Ricardo UK; S. Edwards, T. Hametner, Ricardo Deutschland; D. Walters, P. Bowen, Cardiff University

**Vehicle Acoustics**  
Chairperson: Dr. Detlef Schulze-Fehrenbach

- 10:30 Identification and definition of acoustic relevant limit values for electric vehicles  
  Jan Fischer, A. Albers, M. Behrendt, IPEK, Karlsruhe Institute of Technology (KIT); D. Lieske, Daimler AG

- 11:00 Comparison of vehicle rolling noise on the test bench and on the road  
  Boris Boskovic, Stuttgart University of Applied Sciences; M. Krämer, P. Brandstädt, Fraunhofer Institute for Building Physics

- 11:30 Wind noise testing at the full scale aeroacoustic wind tunnel of Shanghai Automotive Wind Tunnel Center  
  Yinzhi He, Z. Yang, Shanghai Automotive Wind Tunnel Center

- 12:00 Active versus passive Sound systems for intake system  
  Matthias Alex, B. Huurdeman, Mann+Hummel GmbH
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<tr>
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<th>Chairperson</th>
<th>Speaker(s)</th>
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<td>13:30</td>
<td>CI Engines</td>
<td>2nd floor</td>
<td>Chairperson: Prof. Dr. Peter Eilts</td>
<td>Jürgen Gerhardt, H. Lüders, D. Samuelsen, S. Scherer, M. Strobel, Robert Bosch GmbH</td>
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<td>13:30</td>
<td>Aerodynamics II</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Andreas Dillmann</td>
<td>Andreas Höfer, H. Friedrich, A. Schumann, V. Bosch, DLR e. V., A. Wiesebrock, IVK, University of Stuttgart</td>
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<td>13:30</td>
<td>DLR@UniST - Synergies Through the Integration of Independent Electric Motors with a Lightweight Suspension under Consideration of Intelligent Driving Strategies</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Andreas Dillmann</td>
<td>Andreas Höfer, H. Friedrich, A. Schumann, V. Bosch, DLR e. V., A. Wiesebrock, IVK, University of Stuttgart</td>
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<td>14:00</td>
<td>Combination of electrically heated cat and SCR for demanding V-TDI projects</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Peter Eilts</td>
<td>Stefan Möhn, U. Weiß, Z. G. Pamio, H. Lörch, J. M. Haas, AUDI AG</td>
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<td>14:00</td>
<td>Analysis of new freedom in future vehicle interiors</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Thomas Vietor</td>
<td>Theodoros Tzivanopoulos, J. Stieg, Volkswagen Konzernforschung – Volkswagen Group Research Wolfsburg; P. Krasteva, T. Vietor, IK, TU Braunschweig</td>
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<td>14:00</td>
<td>Diesel engine and aftertreatment strategies to meet real driving emissions legislation</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Thomas Vietor</td>
<td>Roscoe Sellers, A. Ward, Ricardo UK; T. Hametner, Ricardo Deutschland GmbH</td>
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<td>14:00</td>
<td>Analysis of Chinese Market demands concerning chassis attributes</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Thomas Vietor</td>
<td>Felix Schröder, A. Wagner, AUDI AG</td>
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<td>14:00</td>
<td>On-road aerodynamic efficiency under realistic transient wind conditions</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Thomas Vietor</td>
<td>Ales Alajbegovic, B. Duncan, J. Gargoloff, Exa Corporation</td>
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<td>14:30</td>
<td>Numerical Aeroacoustics at Mercedes Benz – Progress and Challenges</td>
<td>1st floor</td>
<td>Chairperson: Prof. Dr. Thomas Vietor</td>
<td>Volker Schwarz, M. Eiselt, M. Maihöfer, A. Schell, H. Tokuno, R. Toppinga, Daimler AG</td>
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<td>Coffee break</td>
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**Advanced Driver Assistance Systems II**
Chairperson: Prof. Dr. Klaus Müller-Glaser

13:30  
ECODyNIS - «Ensured Electro-Mobility and Effective CO2-Reduction by Dynamical Navigation in Settlements using Traffic Information via Digital Radios
Gert Siegle, ECODyNIS-Konsortium

14:00  
Robust traction control coordinated with driver intention
Chi Jin, L. Xiong, Y. Chen, Tongji University

14:30  
Automatic cruise control for electric vehicles – Statistical consumption and driver acceptance analysis in a representative test person study on public roads
Andreas Freuer, M. Grimm, FKFS; H.-C. Reuss, FKFS/IWK, University of Stuttgart

**Simulation + Analysis II**
Chairperson: Prof. Dr. Helmut Eichlseder

13:30  
Model-based Calibration of Engine Controller Using Transient Design of Experiments
Nils Tietze, Bosch Engineering GmbH; U. Konigorski, TU Darmstadt; C. Fieck, T.-D. Nguyen-Tuong, Robert Bosch GmbH/Corporate Research

14:00  
TRSim Air Path – A Library to Simulate the Air Path of Any Diesel Engine
Christian Bessai, F. Cornelius, D. Heß, P. M. Isaac Delso, IAV GmbH

14:30  
Precise simulation of diesel engine emissions by coupling 1-D with data-based models
Thorsten Huber, T. Kruse, ETAS GmbH; G. Cornetti, Robert Bosch GmbH

**Drivertrain Testing**
Chairperson: Prof. Dr. Berhard Geringer

13:30  
The chassis dynamometer as a real world driving environment
Till Weber, C. Beidl, vkm, TU Darmstadt; T. Düser, AVL Zöllner GmbH; C. Gietzelt, TÜV Hessen

14:00  
Model-based load change reaction optimization using vehicle drivetrain test beds
Julien Pillas, F. Kirschbaum, Daimler AG

14:30  
Hardware-software co-simulation for the control of an engine testbed
Josef Zehetner, M. Benedikt, Virtual Vehicle Research Center; M. Wierse, Dr. Ing. h.c. F. Porsche AG; H. Kokal, M. Paulweber, AVL List GmbH; G. Stattinger, Alpen-Adria University, Klagenfurt; B. Toye, Porsche Engineering Services GmbH

15:00  
Coffee break

**KÖNIG-KARL-HALLE**
2nd floor

15:30  
Plenary Session and Panel Discussion (see Overview pg. 7)

17:00  
End of Conference