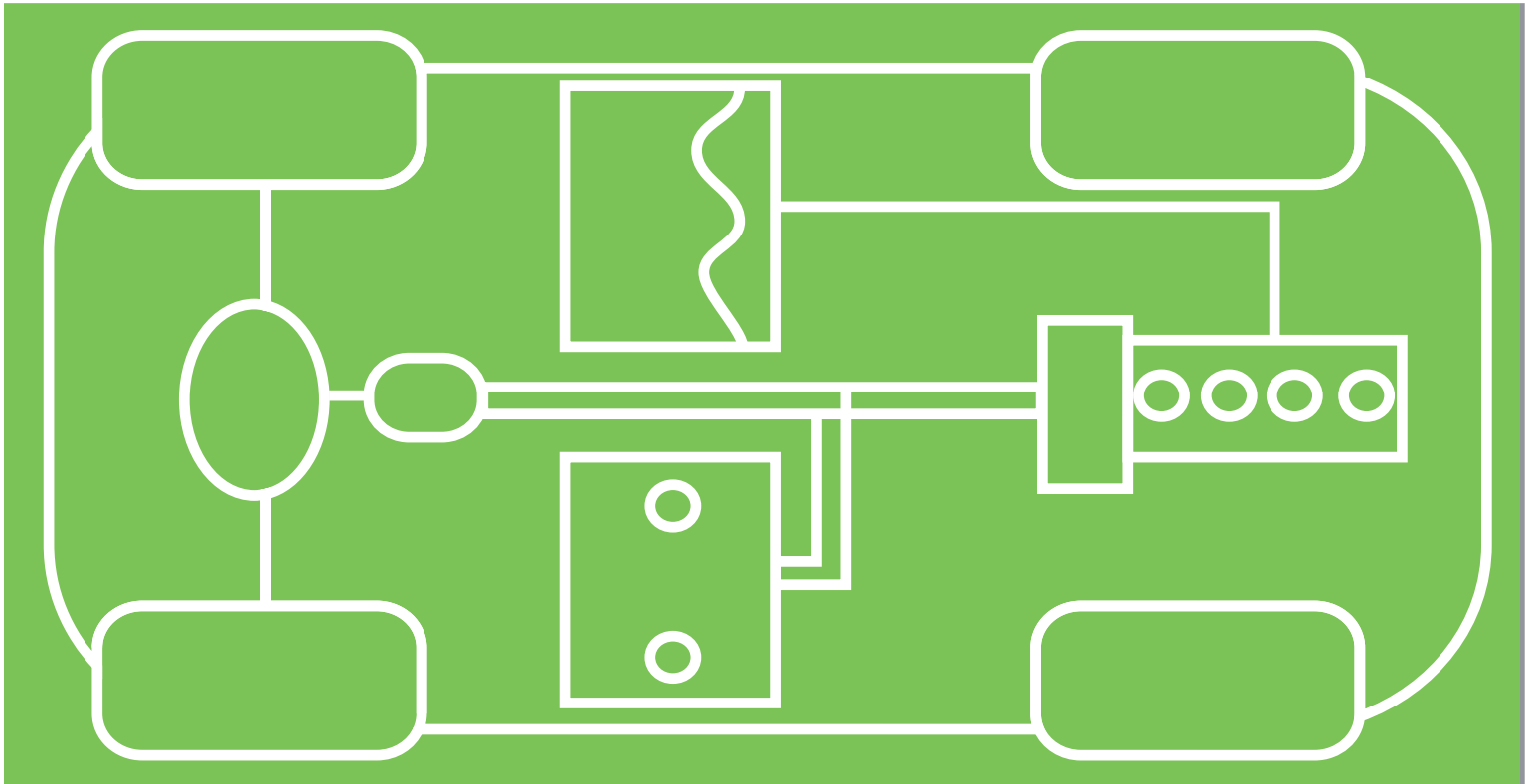


8th Symposium: February 15 – 16, 2011, Stadthalle Braunschweig

Hybrid- und Elektrofahrzeuge/ Hybrid and Electric Vehicles

Mit Fahrevent bei der IAV/
With driving event at IAV



Stadthalle Braunschweig
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Excellence in Automotive Research & Development



Direction

Prof. W.-R. Canders, TU Braunschweig
Dr. Burghard Voß, IAV GmbH

Conference Committee

Prof. Wolf-Rüdiger Canders (chair), Braunschweig University of Technology
Dr. Burghard Voss (deputy chair), IAV GmbH
Hans Günther Baliko (MAGNA E-Car Systems GmbH & Co OG)
Prof. Ludwig Brabetz, (University of Kassel)
Dr. Jürgen K. H. Friedrich (Daimler AG)
Bernd Gaubitz (ZF Sachs)
Prof. Holger Hanselka (Fraunhofer LBF)
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Dr. Christoph Herrmann (NFF)
Klaus-Jürgen Hetzel (Toshiba)
Hanno Jelden (Volkswagen AG)
Dr. Bernhard Koonen (TÜV Rheinland)
Prof. Ferit Küçükay (Braunschweig University of Technology)
Stefan Lorenz (Continental)
Dr. Siegfried Meuresch (Federal Ministry of Economics – BMWi)
Patrick Müller (BMW Group)
Dr. Klaus Prenninger (MAGNA Powertrain)
Dr. Karl-Oskar Proskawetz (ITS Niedersachsen)
Walter Rau (Voith Turbo)
Dr. Heinz Schäfer (hofer eds)
Prof. Walter Schumacher (Braunschweig University of Technology)
Prof. Ulrich Seiffert (WiTech Engineering)
Dr. Guido Weissmann (Lower Saxony Fuel Cell & Battery Technology Initiative)

Dates

February 15th, 2011, 08:30 - 17:45
February 16th, 2011, 08:30 - 16:45

On the Subject

Recent months have seen a surge in research and development work on the subject of electric drives, with many countries launching national electromobility programs. For this reason, the symposium will be providing detailed coverage of the latest solutions in the field of hybrid, plug-in and electric vehicles, including infrastructure. Special focus will be placed on vehicle concepts, energy storage systems, energy management, drive components and infrastructure.

The 8th Braunschweig Symposium on Hybrid and Electric Vehicles will be taking place from February 15–16, 2011 at Braunschweig. A speakers' dinner is planned for the eve of the event. On the first day of the event, IAV in Gifhorn will be presenting hybrid vehicles and offering demonstration drives. In the evening, all participants are invited to a reception at IAV in Gifhorn.

30 minutes will be allocated for a paper, including 10 minutes for discussion. The conference languages are German and English. Simultaneous interpretation will be provided. The presentations in the conference documentation will be published in English.

Exhibition accompanying the symposium

As part of the exhibition accompanying the symposium, manufacturers, developers, suppliers and operators of systems, devices, components, software and services will be presenting their latest advances in the field of hybrid vehicles, electric vehicles and energy management and have the opportunity to deepen contacts with symposium participants and students. The exhibition will be held in the conference area also reserved for coffee breaks.



Access to Braunschweig Civic Hall

Registration – 8th Symposium: February 15 – 16, 2011, Stadthalle Braunschweig

First name _____
Last name _____
Title _____
Company _____
Address _____
Phone, Fax _____
E-mail _____
Signature _____

- Symposium participant: € 790
 Institutes of higher education/civil servants: € 700
 ITS Niedersachsen-members: € 600
 Full-time students (without proceedings) (Please enclose proof of student status. Numbers limited.): free
 I will attend the evening reception.
 I would like to use the bus shuttle.

Enrollment for the symposium:

Please complete the form and return it either by fax or mail to the organizers' office:

Mr. Andreas Redeker
ITS Niedersachsen e.V.
Hermann-Blenk-Str. 17
38108 Braunschweig

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February 15th, 2011:

08:00	Registrierung/Registration	
08:30	Begrüßung/Welcome	Prof. Dr. Wolf-Rüdiger Canders (TU Braunschweig/ NFF)
08:45	Grußworte/Welcoming Address	Dr. Siegfried Meuresch, Matthias Erdmann (BMW)
09:15	Keynote Elektromobilität als Chance/Electromobility as a Chance	Dr. Rudolf Krebs (Volkswagen)
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Session 1	Infrastruktur und Felderfahrung/ Infrastructure and Field Experience	Dr. Burghard Voß (IAV)
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09:45	Der MINI E und project i: ein wichtiger Schritt der BMW Group zur Elektromobilität/ The MINI E and Project i: A Major Step by the BMW Group toward Electromobility	Peter Krams (BMW)
10:15	H ₂ -Mobility	Peter Froeschle, Benjamin Kaehler (Daimler)
10:45	Kaffeepause/Coffee Break	
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Session 2	Fahrzeugkonzepte PKW/Automobile Concepts	Walter Rau (Voith)
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11:15	Plug-In fähige Fahrzeugkonzepte - Konzepte und praktische Erfahrungen/ Plug-In Vehicle Concepts – Concepts and Practical Experience	Dr. Peter Wolters, Dr. Friedrich Wilhelm Speckens, Dr. Knut Habermann (FEV Motorentechnik)
11:45	e-mobility Berlin / Hamburg: Konzeption und Entwicklung batterieelektrischer Fahrzeuge/ e-mobility Berlin / Hamburg: Conception Definition for and Development of Battery-Electric Vehicles	Dr. Jörg Wind (Daimler)
12:15	Das neuentwickelte Plug-in-Hybridsystem von Toyota und seine Leistung im Fahrzeugeinsatz/ Newly Developed Toyota Plug-in Hybrid System and its Vehicle Performance	Bart Biebuyck (Toyota Motor Europe)
12:45	Der BMW Active E: der nächste Schritt der BMW Group zur Elektromobilität/ The BMW Active E: The next step of BMW Group towards electric mobility	Dr. Merten Jung, Bernhard Hofer (BMW)
13:15	Mittagspause/Lunch	
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Session 3	Fahrzeugkonzepte II & Antriebskomponenten I/ Automobile Concepts II & Drive Components I	Patrick Müller (BMW)
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14:15	Golf blue-e-motion - Das Elektrofahrzeug von Volkswagen/ Golf blue-e-motion - The electric vehicle from Volkswagen	Hanno Jelden, Peter Lück (Volkswagen)
14:45	Effizienter Antrieb für Elektrofahrzeuge in Großserie/ Efficient propulsion for mass production Electric Vehicles	Bernhard Klein, Matthias Möritz, Knut Welke (Continental)
15:15	Kundenorientierte Dimensionierung von elektrifizierten Antrieben/ Customer-oriented Dimensioning of Electrified Drivetrains	Marjam Eghtessad, Prof. Dr. Ferit Küçükay (TU Braunschweig)
15:45	Kaffeepause/Coffee Break	

Session 4	Antriebskomponenten II/Drive Components II	Stefan Lorenz (Continental)
16:15	Memory Motor mit variabler Magnetkraft für Hybrid- und Elektrofahrzeuge/ Variable Magnetic Force Memory Motor for Hybrid Electric Vehicle and Electric Vehicle	Daisuke Misu, Norio Takahashi, Yutaka Hashiba, Masanori Arata, Tadashi Tokumasu, Motoyasu Mochizuki (Toshiba)
16:45	Hybridantrieb als Getriebevariante, Ergebnisse aus dem EfA-Projekt/ Hybrid Drive as a Transmission Option, Results from the EfA Project	Wolfgang Schön, Thomas Voss, (ZF Friedrichshafen), Steffen Lutz (BMW), Dr. Andreas Munding (Liebherr Elektronik), Dietmar Zeidler (Kemet), Dr. Markus Thoben (Infineon Technology), Prof. Dr. Josef Lutz, Alexander Hensler (University of Technology, Chemnitz)
17:15	Lastwechselfestigkeit der verbesserten Leistungsmodule, Ergebnisse aus dem EfA-Projekt/ Load-Change Stability of Improved Power Modules, Results from the EfA Project	Alexander Hensler, Prof. Dr. Josef Lutz (University of Technology, Chemnitz), Dr. Markus Thoben (Infineon Technology), Dr. Andreas Munding (Liebherr Elektronik) Dietmar Zeidler (Kemet), Steffen Lutz (BMW) Wolfgang Schön (ZF Friedrichshafen)

17:45 Transfer to IAV GmbH Gifhorn
18:15 Driving event
22:30 Transfer back to Braunschweig

To round off the first conference day, IAV invites you to experience several hybrid and electric vehicles. In the evening ITS Niedersachsen invites all participants to a reception at IAV Gifhorn.



February 16th, 2011:

08:00	Registrierung/Registration	
08:30	Keynote Fahrzeugkonzepte für urbane Elektromobilität/ Vehicle Concepts for Urban Electromobility	Prof. Dr. Markus Lienkamp (TU München)
Session 5	Fahrzeugkonzepte NFZ und Arbeitsmaschinen/ Commercial-Vehicle and Machine Concepts	Hanno Jelden (Volkswagen)
09:00	Entwicklung einer Betriebsstrategie für hybride Nutzfahrzeuge/ Development of a Control Strategy for Hybrid Commercial Vehicles	Martin Winter, Dr. Klaus Prenninger (MAGNA Powertrain)
09:30	Praxiserfahrungen mit unterschiedlichen Hybrid-Systemen in Stadtbussen/ Work Experiences with Different Hybrid Systems in City Buses	Dr. Christian Jaufmann (Voith Turbo)
10:00	Hybrid-AFS I und II - Entwicklung und Felderprobung eines Abfallsammelfahrzeugs mit dieselelektrischem Antriebsstrang/ Hybrid-AFS I and II – Development and Field Testing of a Garbage Collection Vehicle with Diesel-Electric Powertrain	Georg Sandkühler (FAUN Umwelttechnik)
10:30	Hybridtraktoren - Ein Schritt in Richtung nachhaltiger Energieversorgung für mobile Maschinen/ Hybrid Tractors - An Approach towards Sustainable Machinery	Prof. Dr. Peter Pickel (John Deere)
11:00	Kaffeepause/Coffee Break	

Session 6	Energiemanagement & E-Tools/ Energy Management & E-Tools	Prof. Ferit Küçükay (TU Braunschweig/ NFF)
11:30	InDrive-Hybridsimulator - Innovatives Werkzeug zur Simulation und Auslegung komplexer Antriebsstrukturen im realen Fahrbetrieb/ InDrive Hybrid Simulator –Innovative Tool for Simulation and Configuring Complex Drive Structures in Actual Operation	Karsten Cornelsen, Daniel Jänsch, Stev Gerson, Wilfried Nietschke (IAV), Prof. Dr. Markus Maurer, Prof. Dr. Wolf-Rüdiger Canders, Prof. Dr. Walter Schumacher (TU Braunschweig), Prof. Henning Meyer (TU Berlin)
12:00	PräDEM – Prädiktive Diagnose von elektrischen Maschinen in Fahrzeugantrieben/ PräDEM – Predictive Diagnosis of Electric Motors in Automotive Drives	Florian Dräger, Prof. Dr. Ludwig Brabetz, Andrea Flach (Universität Kassel), Matthias Huppert (Volkswagen)
12:30	Ansatz einer online-optimierten Betriebsstrategie mit heuristischer Prädiktionsintegration/ Approach to an Online-Optimized Operating Strategy with Heuristic Prediction Integration	Oliver Cassebaum, Prof. Dr. Bernard Bäker (TU Dresden), Christian Raubitschek, Marco Bruemmer, Geert Schmitz (BMW)
13:00	Neue Herausforderungen bei der Fahrbarkeitsapplikation von hybriden Antriebsträngen/ New Challenges in Calibrating Hybrid Powertrains Drivability	Dr. Christian Birkner, Arne Herrmann, Olaf Wachsmuth, Dirk Schlegelmich (IAV)
13:30	Mittagspause/Lunch	
Session 7	Energiespeicher/Energy Storage System	Prof. Ludwig Brabetz (Universität Kassel)
14:30	Einfluss von Ruhezeiten auf die Lebensdauer von Lithium-Ionen-Zellen im automobilen Einsatz/ Effect of Rest Periods on the Life of Lithium-Ion Cells in Automotive Use	Dr. Hans-Gerhard Bremes, Mathias Reichert (Universität Münster)
15:00	Qualitätsanalysen von Li-Ionen Hochvoltbatterien/ Analyzing the Quality of High-Voltage Li-Ion Batteries	Dr. Andreas Gruhle, W. Dürr (Daimler)
15:30	Das Batterieüberwachungsgerät von DENSO für HEV/ EV-Li-ion-Batterien/DENSO Battery Monitoring Unit for HEV/EV Li-Ion Battery	Dr. Lawrence Alger (Denso International Europe)
16:00	HEBEA - Modellantrieb Elektromobilität – Entwicklung, Evaluierung und Demonstration eines integrierten, hocheffizienten Antriebssystems für batterieelektrische Straßenfahrzeuge/ HEBEA - Reference Drive System for Electric Mobility - Development, Evaluation and Demonstration of an Integrated, High-Efficient Drive System for Battery Electric Vehicles	Felix von Borck, Stephen Raiser, Björn Eberleh (Akasol Engineering)
16:30	Schlusswort/Concluding Remarks	Prof. Dr. Ulrich Seiffert (WiTech Engineering)

Cancellation: Participation may be canceled free of charge up to 21 days before the event commences. 50% of the attendance fee will be charged for cancellations received after this time. We will charge the full attendance fee for any participation canceled on the actual day of the event. Cancellation must be made in writing. Event cancellation and changes: The organizer shall be entitled to cancel an event without stating reasons. In this case, the full attendance fee will be reimbursed. No further claims may be made. The organizer reserves the right to change the conference program provided such does not affect the event's overall character.

Liability: The organizer is liable for willful or grossly negligent action as well as for any infringement of major contractual obligations for which the organizer is to blame. In the event of negligence, the amount of liability for damages shall be limited to compensation for the loss that can be foreseen for this type of contract. Liability for damages for injury to life or limb as well as product liability shall remain unaffected. Insofar as the afore-stated arrangement rules out or limits liability for damages, this shall also cover personal liability of the organs, of employees or of other members of staff, of representatives, of vicarious agents and the use of event documentation.

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