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Rethinking Propulsion.

A public private partnership in cooperation with the Austrian  
Federal Ministry for Transport, Innovation and Technology



## Conference Program

# Alternative Propulsion Systems and Energy Carriers

Austrian, European and global  
R&D- and demonstration projects,  
research institutions and funding programs

October 16<sup>th</sup> 2009

**TechGate Vienna**  
**Donau City Straße 1, A-1220 Vienna, Austria**

Registration until October 6<sup>th</sup> 2009 via:

<http://www.a3ps.at/site/registration/4.html>

The participation at the conference is free.

Limited Number of participants.

Registration will be in the order of their arrival.

Further information can be found at:

[www.a3ps.at](http://www.a3ps.at)

## Program

### Plenary Session

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09:00	<b>Austrian R&amp;D-activities and funding instruments for the Development and Market Introduction of Alternative Propulsion Systems and Fuels</b> Andreas Dorda – BMVIT/A3PS
09:30	<b>Energy Sources and Fuel Options – Shell Scenarios for the Future of Mobility</b> Karl Rose – Shell
10:00	<b>Zero Emission Mobility – Germany is Preparing the Markets</b> Klaus Bohnhoff – NOW

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10:30–11:00 Break

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11:00	<b>Sustainable Mobility: RENAULT Strategy with Alternative Energies</b> Remi Bastien – Renault
11:30	<b>Road to Sustainable Mobility</b> Peter Fröschle – Daimler

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12:00–13:00 Lunch

### Panel Discussion

Chair: Andreas Dorda – BMVIT/A3PS

13:00–14:00 **Comparative Assessment of Alternative Propulsion Systems and Fuels. Which Market Entry Strategies will be successful?**

Participants:  
Karl Rose – Shell  
Klaus Bohnhoff – NOW  
Remi Bastien – Renault  
Peter Fröschle – Daimler

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### Parallel Session 1 – Electric Mobility

Chair: Josef Furlinger – RIC  
Co-Chair: Stefan Herndler – A3PS

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14:00	<b>An Overview of Electrical Energy Storage Systems for Automotive Applications</b> Georg Brasseur – TU Graz – Institute of Electrical Measurement and Measurement Signal Processing
14:15	<b>Sustainable E-Mobility and Energy Infrastructures</b> Günther Brauner – TU Vienna – Institute of Electrical Power Systems and Energy Economics
14:30	<b>Transportation Fuels of Tomorrow – Perspectives and Challenges for Transportation Biofuels, Hydrogen and E-mobility in Austria</b> Gerfried Jungmeier – Joanneum Research
14:45	<b>A Chicken-and-Egg Solution in Electromobility</b> Andreas Schenner – Bitter
15:00	<b>Research Topics at CEST Competence Centre</b> Hermann Kronberger – CEST – Competence Centre for Electrochemical Surface Technology

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15:15–15:45 Break

Chair: Reinhard Pfliegl – AustriaTech  
Co-Chair: Stefan Herndler – A3PS

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15:45	<b>Innovations for Competitive Electric Vehicles</b> Franz Pirker – AIT – Mobility
16:00	<b>Light Weight Structures and Light Metals for New Electric Vehicles</b> Franz Riemelmoser – AIT – LKR Ranshofen
16:15	<b>Electrification of Vehicle Drive Train – The Diversity of Engineering Challenges</b> Frank Beste – AVL List
16:30	<b>Alternative Propulsion Systems with Main Focus on Electric Vehicles</b> Peter Reif – Magna Steyr

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17:00 End of Conference

### Parallel Session 2 – Fuel Cells and Alternative Fuels

Chair: Franz Leichtfried – Biovest Consulting GmbH  
Co-Chair: Gabriela Telias – A3PS

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14:00	<b>Component Technologies for Automotive SOFC-Systems</b> Klaus Reißbacher – Plansee
14:15	<b>Application of the Fronius Energy Cell in Intralogistics</b> Ewald Wahlmüller – FRONIUS
14:30	<b>High Temperature Proton Exchange Membrane Fuel Cells – The impact of fuel contaminants and temperature on fuel cell performance</b> Viktor Hacker – TU Graz – Institute of Chemical Engineering and Environmental Technology – Laboratory for Fuel Cell Systems
14:45	<b>Activities at the Hydrogen Center Austria</b> Manfred Klell – HyCentA Research
15:00	<b>Hydrogen Fermentation from Various Biomass Residues – The challenge of yield, productivity, costs and life cycle</b> Werner Ahrer – PROFACTOR

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15:15–15:45 Break

Chair: Walter Böhme – OMV  
Co-Chair: Gabriela Telias – A3PS

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15:45	<b>Emission Behaviour and Efficiency of SI Engines operated with Biogas</b> Heiko Pflaum – TU Vienna – Institute for Internal Combustion Engines and Automotive Engineering
16:00	<b>CNG600 – High Efficient Monofuel CNG Light Duty Vehicle</b> Luis Cachón – TU Vienna – Institute for Internal Combustion Engines and Automotive Engineering
16:15	<b>Potentials of Efficiency Increase along the Value Chain Biogas</b> Thomas Amon – Vienna University of Natural Resources and Applied Life Sciences – Department of Sustainable Agricultural Systems
16:30	<b>Status of Development of Synthetic Biofuels from Biomass in Austria</b> Reinhard Rauch – TU Vienna – Institute of Chemical Engineering
16:45	<b>Second Generation Biofuels – State of the art: an overview on demonstration plants around the world</b> Dina Bacovsky – Bioenergy 2020+

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