

VOLKSWAGEN

AKTIENGESELLSCHAFT

International Conference

Innovative Developments for Lightweight Vehicle Structures

26th - 27th May 2009 | Wolfsburg, Germany



"Fat men cannot run as fast as thin men, but we build most of our vehicles as though deadweight fat increased speed.... I cannot imagine where the delusion that weight means strength came from..." - Henry Ford

Weight reduction is obviously not a new ambition for the automotive sector, but it is gaining more and more importance due to the collective environmental conscience, the upcoming fuel production decline and the stringent regulations the industry is and will face.

The Conference **Innovative Developments for Lightweight Vehicle Structures** will cover different aspects of lightweight, multimaterial vehicles, from concept design and optimisation to forming and joining technologies, life-cycle assessment and recyclability. Further developments, research requirements and challenges will also be presented and discussed.

The Conference will cover the main achievements of SuperLIGHT-CAR, a joint project together with 37 leading European organisations, all having contributed to the development of lightweight multimaterial car body structures. One of the highlights of the Conference will be the premiere of the complete SLC prototype BIW structure.

For more information, please visit
www.superlightcar.com/conference

Tuesday, May 26th 2009

09:00 Registration

09:30 Welcome

The Green Automotive Future in Europe
Prof. Dr. Jürgen Lehold, Volkswagen AG
Head of Group Research

10:15 SuperLIGHT-Car – An integrated Research

Approach for Lightweight Innovations
Dr. Martin Goede, Volkswagen AG Group Research
Manager Lightweight Design & CO₂-Reduction

10:45 Coffee break

Session I - Concept & Design Aspects for innovative Lightweight Body Structures

Chair: Dr. Jürgen Wesemann,
Ford Research and Advanced Engineering
Manager of Vehicle Technologies & Materials

11:00 Concept Tools and Simulation for Lightweight Body Design

Christian Sahr, ika-RWTH Aachen University
Chief Engineer
Neil Butcher, Arup
Engineering Manager Future Transportation

11:30 Requirements and Testing for a load-optimised Design of Lightweight Structures

Rüdiger Heim, Fraunhofer LBF
Head of the Competence Center Wheel/Hub/Axle

12:00 Strategies and Methods for multimaterial Structure and Concept Developments

Gundolf Kopp, German Aerospace Center-DLR
Head of Lightweight and Hybrid Structures
Prof. Dr. Horst Friedrich, German Aerospace Center-DLR
Director of the Institute of concept vehicle

12:30 Premiere: Presentation of the SuperLIGHT-Car Prototype Body

12:45 Lunch break

Tuesday, May 26th 2009

Session II - Materials and Manufacturing Technologies for multimaterial Structures

Chair: Prof. Dr. Matthias Niemeyer,
Salzgitter Mannesmann Research GmbH
Head of Salzgitter Mannesmann Research GmbH

14:00 New Developments of Steel Solutions for future Car Body Architectures

Dr. Edzard-Friedrich Schaeper, ArcelorMittal
Manager CTS Resident for VW & Processing Engineer
Fabrice Pinard, Arcelor Noble
Director of Product Development Europe

14:30 Aluminium in innovative Light-Weight Car Design

Prof. Dr. Jürgen Hirsch, Hydro Deutschland GmbH
Senior Scientist Metallurgy

15:00 Polymer Technologies for innovative Lightweight Vehicle Structures

Oliver Geiger, Fraunhofer ICT
Teamleader Composite Materials
Dr. Jan Schulte zur Heide, Alcan Composite Structures
R&D Project Manager

15:30 Coffee break

16:00 Magnesium Sheet Parts for Automotive Applications – Material and Process Chain

Dr. Peter Juchmann, Salzgitter Magnesium-Technologie GmbH
Managing Director

16:30 Robust Joining Processes for Series Production today and tomorrow

Dr. Bernard Criqui, Renault
Head of Assembling and new Processing

17:00 Invitation to a 'Get together' and to the Exhibition

Oliver Schroeter, Volkswagen AG Group Research
Head of Vehicle Technologies

17:15 End of Conference Day 1

Wednesday, May 27th 2009

Session III - Sustainable Production & Life Cycle Aspects

Chair: Mr. Günter H. Deinzer, Audi AG
Head of Materials Engineering and Recycling

09:30 Production Concepts and demands for Multimaterial Structures

Manuel Lai, Centro Ricerche Fiat
Head of Body & Interiors Dept. Materials and Processes
Yolanda Senovilla Nuñez, Comau
Proposal Engineer at BU Body Welding and Assembly

10:00 Life Cycle Assessment and Recycling of innovative multimaterial Applications

Dr. Stephan Krinke, Volkswagen AG Group Research
Head of Environmental Product Analysis
Julia Pflieger, PE International, Project Manager
Dr. Antoinette van Schaik, MARAS, Director
Prof. Dr. Markus Reuter, Ausmelt Ltd, Australia
Chief Executive Technologist

10:30 Multimaterial light weight Design for the Body in White of the new BMW 7 series

Dr. Markus Pfestorf, BMW Group
Expert on Car Body Materials

11:00 Coffee break

Session IV - Further Developments and Future Research Requirements

Chair: Prof. Dr. Hans Ferkel, Volkswagen AG
Head of Group Research Materials

11:30 Car Body Concepts of the Future

Dr. Klaus Koglin, Audi AG
Head of Technology Development

12:00 Tube-intensive Design as an Opening for new efficient Lightweight Potential

Dr. Henrik Adam, ThyssenKrupp Steel AG
Director Sales and Engineering

12:30 Key Technology Mechanical Joining

Dr. Gerson Meschut, Böllhoff
Director General

13:00 Research Needs & Future Trends in Lightweight Design

Prof. Dr. Stefan Gies, ika-RWTH Aachen University
Head of Institute

13:30 Conference Closing

Oliver Schroeter, Volkswagen AG Group Research
Head of Department Vehicle Technologies

Registration

The Conference is targeted at Vehicle Manufacturers , Tier-1 and Tier-2 suppliers, R&D centres as well as EUCAR and the European Commission representatives.

Registration fees, including lunch, refreshments, and conference proceedings (literature and CD), are:

- General participants: 900 € + 19 % VAT
- Students: 300 € + 19 % VAT

For registration please use our registration form or follow the instructions on the website: www.superlightcar.com/conference

For comments or questions, please contact conference@volkswagen.de

Location

Forum Autovision of the
Wolfsburg AG
Major-Hirst-Straße 11
38442 Wolfsburg
Tel +49 5361 897-2434





International Conference:
**Innovative Developments
for Lightweight Vehicle Structures**

26th and 27th May 2009 | Wolfsburg, Germany

Registration procedure

To register for the Conference, participants are requested to:

1: Fill in the following form:

Title, name, surname	
Company	
Contact telephone number	
Email address	
Invoicing address	Street: Postcode: City:
Company VAT number	

- General participant** (participation fee: 900 € +19%VAT)
 Student (participation fee: 300 € +19% VAT)

2: Send it by mail to conference@volkswagen.de or by fax to +49 5361 577 3026

3: As a confirmation of your registration you will receive the invoice.

4: Transfer the participation fee to the following bank account:

Account Name: Volkswagen AG Bank Name: Dresdner Bank AG, Wolfsburg Account Number: 0 303 780 000 Sort Code: 269 810 62 IBAN: DE51269810620303780000 Swift Code: DRESDEFF269
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Including the following reference for payment: "Lightweight Conference"
Please notice that all transfer costs have to be incurred by the participant.

In case of cancellation up to 8th May 2009, you will be charged 100 € handling fee. Thereafter the full participation fee will be due. Participant names changes are acceptable at no extra costs.

For further information and queries, please contact:
Organisation & Registration:
Ms. Julia Willkop
Tel. +49 5361 973026
conference@volkswagen.de

Place, Date

Signature