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Vehicle Safety 2020

Processes – Functions – Innovative Systems

Congress at the AMI 2010

April 13 – 14, 2010, Congress Center Leipzig

In cooperation with



TÜV SÜD Automotive GmbH
TÜV SÜD Akademie GmbH

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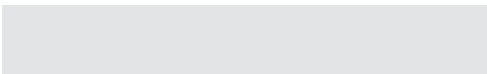
The Congress

Never before there has been such a challenging time for the automobile industry as in 2009. Against the background of declining sales, demands from customers are increasing, e.g. greater fuel economy and environmentally friendly vehicle solutions. Ecology in mobility may not be at the expense of safety – safety still stands on top of the list of customer desires.

In the automobile industry there are numerous approaches to improve vehicle safety. This continued development as well as new evaluations flow into Euro NCAP (European New Car Assessment Program). To achieve the highest rating level, passive safety alone is not sufficient. Vehicles must achieve a minimum score in all four safety categories Adult Occupant, Child Occupant, Pedestrian Protection and Safety Assist. Indeed, a negative test result in one single category leads to a drastic reduction in the total result. The correct combination of the various safety systems will play a decisive role. On the one hand, intelligent occupant protection and on the other hand the integration of driver assistance systems must merge to the complete protection system of integrated safety.

The present development boom of electric vehicles not only demands high safety standards but to some extent causes completely new questions. Therefore we would like to discuss this subject at the **crash.tech 2010** as well as subjects like test and simulation, accident research, pedestrian protection as well as tangible system benefits for the driver. You will have the opportunity to meet experts and colleagues from research and development and to engage professional exchanges about the present state of technology and current challenges.

**Your attendance will enrich
the 10th crash.tech congress!
We look forward to welcoming you.**





Committee

- Christian Bangemann, auto motor und sport
- Kurt Fograscher, Autoliv B.V. & Co. KG
- Dr. Joachim Franz, Continental Safety Engineering International
- Dr. Flavio Friesen, Adam Opel GmbH
- Ulrich Führer, Messring Systembau GmbH
- Franz-Michael Hagemann, AUDI AG
- Prof. Dr. Klaus Langwieder, International Safety Consulting
- Bernd Lorenz, Federal Highway Research Institute
- Thomas Papenheim, TVS GmbH & Co. KG
- Andreas Riegel, BMW AG
- Dr. Swen Schaub, TRW Automotive GmbH
- Prof. Dr. Rodolfo Schöneburg, Daimler AG
- Florian Schueler, Institut für Rechts- und Verkehrsmedizin, Universität Heidelberg
- Prof. Dr. Ulrich Seiffert, WiTech Engineering GmbH
- Wolfgang Siebenpfeiffer, ATZ/MTZ
- Dr. Jiri Socha, TÜV SÜD Auto CZ s.r.o.

Chair

Dr. Lothar Wech, TÜV SÜD Automotive GmbH





Target audience

- Automotive industry
- System providers and supplier industry
- Engineering service providers
- Universities and research institutes
- Government authorities and associations
- Technical experts and legal lawyers

Congress language

German and English (with simultaneous interpretation from German to English).

Exhibition

Interested companies have the opportunity to present their products and services in the exhibition which will be held parallel to the conference.

For details please contact Ms. Ute Alius, Phone +49 89 5791-1647 or congress@tuev-sued.de

Evening programme

Dinner in "Bayerischen Bahnhof" in Leipzig on April 13, 2010 at 19:30. Enjoy a pleasant evening with interesting conversations.

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Agenda on April 13, 2010

- 9:30 Welcome and opening
Dr. Axel Stepken, TÜV SÜD, CEO
- 9:45 Vehicle Safety 2020 – Challenges posed to legislators
Dr. Peter Reichelt, President, Federal Highway Research Institute
- 10:15 The future of Euro NCAP's car safety program
Dr. Michiel van Ratingen, Secretary General of Euro NCAP
- 10:45 Coffee break

Safety from the customer's perspective and future safety systems

Chair: Dr. Lothar Wech, TÜV SÜD Automotive GmbH

- 11:15 Safety from a customer perspective
Dr. Goetz Renner, Dr. Christin Kreutzburg, Daimler AG
- 11:45 Scenario based testing for the validation of active safety systems and ADAS – demands and realization
Stig-Håkan Nilsson, Autoliv Research
- 12:15 Safety benefits by driver assistance functions – increased dissemination via higher comparability
Wilfried Mehr, Dr. Oliver Scherf, Continental AG
- 12:45 Lunch break

Accident research and legislation

Chair: Prof. Dr. Klaus Langwieder, International Safety Consulting

- 13:45 GTR – a global harmonization process?
Richard Damm, Federal Ministry of Transport, Building and Urban Affairs
- 14:15 Evaluation of the Euro NCAP pedestrian rating on the basis of real-world pedestrian accidents
Dr. Lars Hannawald, Henrik Liers, Verkehrsunfallforschung an der TU Dresden GmbH



- 14:45 Enhanced requirements for front ends due to new test regulations for pedestrian protection
Dirk-Uwe Gehring, Peter Leßmann, BGS Böhme & Gehring GmbH;
Oliver Zander, Federal Highway Research Institute
- 15:15 Coffee break

Pedestrian protection

Chair: Prof. Dr. Rodolfo Schöneburg, Daimler AG

- 15:45 Objective classification of front-end structures on the basis of impact-related geometric measures in frontal pedestrian accidents
Henrik Liers, Dr. Lars Hannawald, Verkehrsunfallforschung an der TU Dresden GmbH
- 16:15 Pedestrian injury risk functions for real world benefit evaluation of integrated safety systems
Anja Reßle, Stefan Schramm, Lehrstuhl für Fahrzeugtechnik, Technische Universität München;
Dr. Thorsten Kölzow, Audi AG
- 16:45 Pedestrian protection as challenge for modern automotive engineering
Thomas Kinsky, General Motors Europe Engineering / Adam Opel GmbH
- 17:15 End of presentations
followed by a guided tour in the trade fair featuring highlights in the field of vehicle safety
- 19:30 Evening programme at the "Bayerische Bahnhof" Leipzig

Agenda on April 14, 2010

Simulation and analysis

Chair: Franz-Michael Hagemann, AUDI AG

- 8:30** Simulation and testing: CAx-integration in vehicle safety development
Jens Christlein, Marcus Lutz, Frank Lehmann, AUDI AG
- 9:00** Precise motion tracking in crash tests using inertial measurement units
Dr. Kai Schönebeck, Ruhr-Universität Bochum
- 9:30** Special crash test measurements and their benefit to the car development
Rudolf Tesárek, Martin Šreibr, TÜV SÜD Czech s.r.o.; Petr Kraus, Miloš Šáfr, Horymir Svoboda, ŠKODA AUTO
- 10:00** Three-dimensional motion analysis of engine motion in a safety test from a camera pit using photogrammetric methods
Dr. Karsten Raguse, Peter Derpmann-Hagenström, Volkswagen AG
- 10:30** Coffee break

Test and measuring technology

Chair: Kurt Fograscher, Autoliv B.V. & Co. KG

- 11:00** Introduction of a new test device for a simple and repeatable driverside Out of Position substitute test
Heiko Hofmann, Frank Wollny, TAKATA-PETRI AG
- 11:30** High-dynamic force measurement technology and its accuracy in the environment of process-optimized crash laboratories
Dr. Wolfgang Evers, Dr. Georg Schading, Kistler Instrumente AG



- 12:00** Alternative component test for vehicle seats for modeling relevant loads in frontal crashes
Axel Heym, Stefan Radtke, TAKATA-PETRI AG
- 12:30** Evaluation of the injury prediction capability of the dummy WorldSID small female in two accident reconstructions
Andre Eggers, Britta Schnottale, Federal Highway Research Institute
- 13:00** Lunch break

Safety requirements upon electric-powered vehicles

Chair: Wolfgang Siebenpfeiffer, ATZ / MTZ

- 14:00** Standardization of safety requirements
Martin Altepost, Dr. Frank Edler, TÜV SÜD Automotive GmbH
- 14:30** Crash safety of lithium-ion batteries in hybrid vehicles
Rainer Justen, Prof. Dr. Rodolfo Schöneburg, Dr. Dirk Schröter, Dr. Rainer Kaufmann, Daimler AG
- 15:00** Functional safety and vehicle safety for electric mobility – synergies and challenges
Armin Gräter, BMW Group
- 15:30** Closing remarks
Dr. Lothar Wech, TÜV SÜD Automotive GmbH



Akademie

Conference Management



www.tuev-sued.de/tagungen

Conference fee

€ 890,- plus VAT

The registration fee includes conference documentation, lunch and drinks during breaks as well as the evening event.

Conference venue

Leipziger Messe (Congress Center)
Messe-Allee 1, 04356 Leipzig, Germany

You will receive travel and hotel information with the confirmation of your registration.

Registration and information

TÜV SÜD Akademie GmbH
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Registration

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April 13 – 14, 2010, Congress Center Leipzig

■ Name

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*With indication of your Fax and E-mail address, you agree to receive information material from the TÜV SÜD Akademie. You can unsubscribe the sending of such info material anytime without costs.

■ Invoice address (if different from above)

Registration fee: € 890,- plus VAT

Cancellation policy: Cancellation of registration up to 14 days prior to the event is free of charge. In case of cancellation beyond this deadline and up to the third working day prior the event, 50 % of the invoice amount is due for payment. In case of cancellation beyond this deadline or failure to participate in the event, the full amount of the invoice shall be due. I accept changes in the programme and the general terms and conditions of participation of TÜV SÜD Akademie GmbH.

■ Date / Signature

