

About the Course

In October 1995, the first Euromotor Course "New Advances in Body Engineering" took place at the Institut für Kraftfahrwesen Aachen (ika) with speakers and participants from the automotive and supplier industry as well as research institutes. Due to the great success of the first event, the course has been held every year since then. This time it will take place at ika on December 6th and 7th.

As the conference has an international orientation, all lectures, discussions and proceedings are exclusively held in English.


This year's conference deals with the three main topics of lightweight design and material application as well as passive safety. We expect interesting discussions about new body concepts based on lightweight materials and trend-setting passive safety developments. Further lectures will give an overview of the application of modern design tools in the field of numerical optimisation.


The event is organised for a limited number of participants. For each lecture there is a time limit of 30 minutes with additional 10 minutes left for discussion after each presentation. The limitation of participants and relatively long periods for lectures and discussion ensure an intense analysis of each subject.

A visit of the traditional Aachen Christmas market and a dinner in a typical Aachen restaurant will conclude the evening of the first day. After the lectures of each day, a presentation of ika's testing facilities is scheduled.

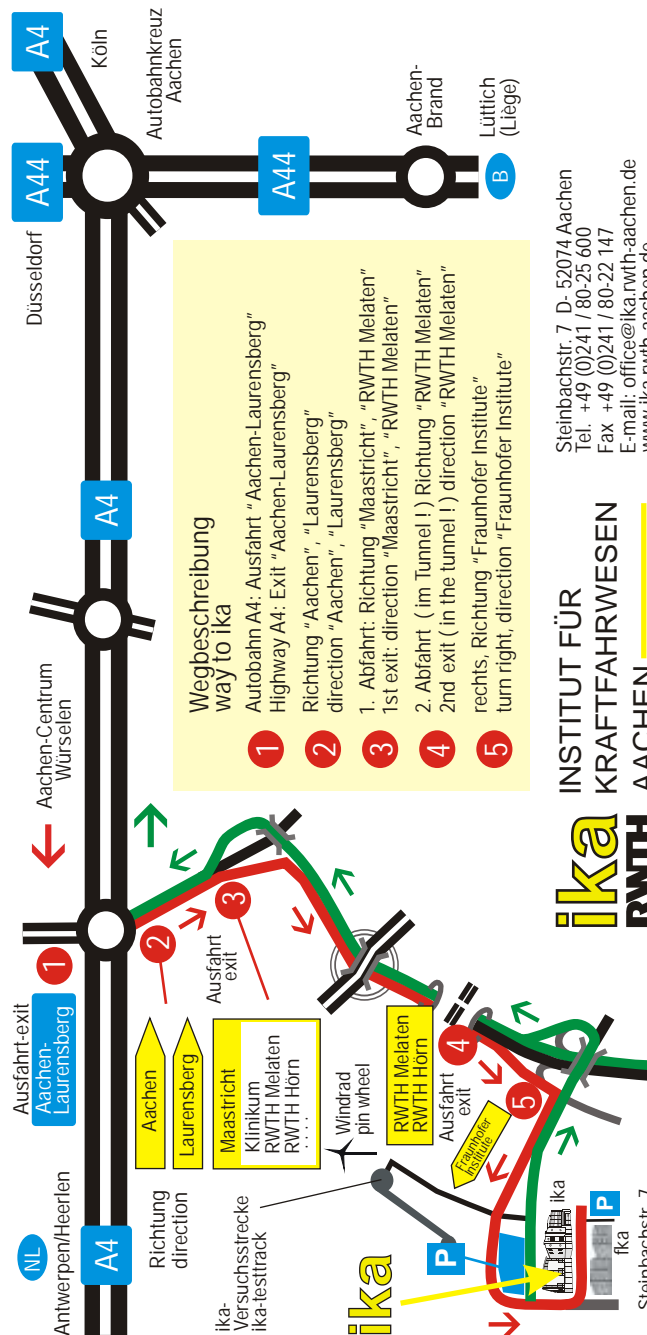
In case you are interested in participating in the conference, please send us the enclosed registration. It will be a pleasure for us to welcome you as a participant.

Come and spend some informative days in Aachen!


Univ.-Prof. Dr.-Ing. H. Wallentowitz
Director of the Institute

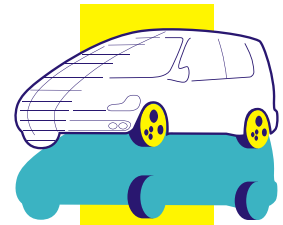

Dipl.-Ing. P. Urban
Head of Body Department

Way to ika



With the support of the Commission of the European Communities under the LEONARDO DA VINCI Programme

New Advances in



Body Engineering

Lightweight design
Passive safety
Pedestrian protection
Numerical optimisation

6th and 7th December 2006

ika INSTITUT FÜR KRAFTFAHRWESEN RWTH AACHEN

Program Wednesday, 6th December 2006

- 8.30 - 9.00 **Registration**
- 9.00 - 9.10 **Introduction**
Dipl.-Ing. Peter Urban
Institut für Kraftfahrwesen Aachen
- 9.10 - 9.50 **Potential, applications and failure prediction of hot formed steels in crash**
Dr.-Ing. H. Lanzerath, A. Bach, O. Ghouati
R. Schilling, T. Hallfeldt
Ford Forschungszentrum Aachen GmbH
- 9.50 - 10.30 **Evaluation of forming history effects on the crash results of a steel bumper, combined with a benchmark of various FE codes and validation by means of forming and crash measurement**
Dr. ir. Rens Evers
DAF Trucks N.V., Eindhoven (NL)
- 10.30 - 11.00 **Coffee break**
- 11.00 - 11.40 **Aluminium front structures for a C-class vehicle**
Dipl.-Ing. Sven Faßbender, ika - RWTH Aachen
- 11.40 - 12.20 **Assessment of structural composite fibre part in motor-vehicle body construction on the basis of a bonnet**
Dipl.-Ing. Wolfgang Dietz
MAGNA STEYR Fahrzeugtechnik, Graz (A)
- 12.20 - 13.40 **Lunch**
- 13.40 - 14.20 **The legal requirements on pedestrian protection and their transformation into practice**
Dipl.-Ing. Thomas Kinsky
Adam Opel GmbH, Rüsselsheim
- 14.20 - 15.00 **Optimized hood concepts for pedestrian protection phase 2**
Dipl.-Ing. Rolf Peter Röttger
ThyssenKrupp Steel AG, Duisburg
- 15.00 - 15.20 **Coffee break**
- 15.20 - 16.00 **BioRID-II dummy model development in cooperation with the German automotive industry - a model to assess whiplash risks with LS-DYNA**
S. Stahlschmidt, B. Keding, U. Franz
DYNAmore GmbH, Stuttgart
- 16.00 - 17.00 **Demonstration of ika testing facilities**
- 19.30 **Evening event**

Program Thursday, 7th December 2006

- 9.00 - 9.40 **Generalized shape and topology optimization: Recent development and application perspectives to automotive structures**
Prof. Dr.-Ing. Pierre Duysinx
Laurent Van Mieghroet, Alain Remouchamp
Prof. Dr.-Ing. Claude Fleury, Univ. of Liège (B)
- 9.40 - 10.20 **Shape optimisation taking into consideration the fatigue strength**
Dipl.-Ing. Benjamin Leblanc
Altair Engineering GmbH, Böblingen
- 10.20 - 10.50 **Coffee break**
- 10.50 - 11.30 **Possibility of application for magnesium die-cast in suspension strut housings**
Bayu Priyantoro M.Sc., ika - RWTH Aachen
- 11.30 - 12.10 **Usage of structural adhesives in the body shop assembly**
Dr.-Ing. Olaf Lammerschop
Henkel Technologies, Düsseldorf
- 12.10 - 13.30 **Lunch**
- 13.30 - 14.10 **Automotive laminated safety glass: Lightweight and enhancing passive safety**
Dr.-Ing. Jan Grünert, Dr.-Ing. Michael Labrot
Saint-Gobain Sekurit Deutschland
Herzogenrath
- 14.30 - 15.30 **Live vehicle crash in ika crash test facility**
- 15.30 **End of course**

About Euromotor

EUROMOTOR is an advanced training program sponsored by the European Union for engineers of the European automotive and supplier industry. Its aim is the exchange of experiences with new developments between industry and university. Courses are offered in all fields around the automobile, as for example vehicle dynamics, electronics, powertrain, testing and fatigue as well as courses in the field of body engineering.

For further information, please contact:
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Organisation

For registration please use our registration form only and send it back to us by fax or mail.

A minimum number of participants is necessary for the conference to take place; the number of participants is limited.

Participation fee incl. proceedings, lunch, evening event and beverages:

EUR 550,- plus VAT

Please pay cashless after receiving the invoice with indication of your invoice number before the course starts.

In case of a cancellation within 14 days before the course starts, we have to charge EUR 100,- as handling costs. Otherwise the full participation fee becomes due. If the participation fee is not transferred to our bank account before the course starts, participation is only possible by paying the amount at the registration office on the first day of the course by Master- /Visa-Card or in cash.

Gladly we accept a substitute from your company without additional costs.

The proceedings can be ordered one week after the course for EUR 150,- plus VAT + forwarding expenses.

Contact person/ inquiry calls:

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Venue

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Organisation and registration

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Hotel reservation

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