

# Cabriolets 2006



25 and 26 September 2006  
Salzburg, Austria

## Top Concepts:

- **VW Cabriolet-Coupé EOS:**  
Its innovative roof concept
- **Opel Astra Twin Top:**  
Multiple roof part design and concept integration
- **Suagnà:**  
New design aspects of the Bertone concept car
- **Karmann SUC:**  
The development of a new segment

## Speakers of the following top companies:

- Adam Opel GmbH
- Volkswagen AG
- Arvin Meritor Roof Systems
- CARROZZERIA BERTONE S.p.A.
- Faurecia Innenraum Systeme GmbH
- Freeglass GmbH & Co. KG
- Haartz GmbH
- Helbako GmbH
- MAGNA STEYR Fahrzeugtechnik AG & Co. KG
- Metzeler Automotive Profile Systems
- Parat Automotive Schönenbach GmbH & Co. KG
- Valmet Automotive Inc.
- Wilhelm Karmann GmbH



## Greeting:

Dear Sir or Madam,

“Carry-over” components, five-part tops with sliding glass roofs, tops for four-door and four-seater saloons or vans, separate and continuously variable opening, etc. The cabriolet market is anything but stationary!

For this very reason, we would like to invite you to attend our Cabriolet Forum 2006. OEMs, cabriolet manufacturers and suppliers will be presenting 14 specialist papers focusing on their experience and new concepts. Discussion sessions and an evening event organised by CTI will give you an opportunity to talk to the speakers and other delegates about challenges and possible solutions.

Prof. Jörg Grabner  
Chairmann



## Participants' statements of past cabriolets forums:

The seminar presented a very good overview of convertible systems and future developments.

**Dr. Bernd Westerhoff, Manager European Technical Centre,  
Metzeler Automotive Profile Systems GmbH**

I was comfortable with the organisation, operation and with the content of the forum.  
**Matthias Paul, Production Technology Manager, Open Air Systems GmbH**

Manageable, friendly group; a lot of time for conversation.  
**Jörg Behmer, Director, TECHNICAL CONSULTING GmbH**



## A selection of participating companies at CTI-Cabriolet-Events:

Adam Opel GmbH, Audi AG, BMW AG, DaimlerChrysler AG, Dr. Ing. h.c.F. Porsche AG, smart GmbH, Volkswagen Coaching GmbH, Alcoa Automotive GmbH, Bertone Engineering, Bertrandt Technikum GmbH, Brose Fahrzeugteile GmbH & Co KG, Conti Temic microelectronic GmbH, Cooper Standard Automotive (D) GmbH, CTS Fahrzeug-Dachsysteme GmbH, Dura Convertible Systems GmbH, EDAG Engineering + Design AG, Edscha Cabrio-Dachsysteme GmbH, Eduard Hartmann GmbH & Co. KG, GTG Gummidichtungstechnik, Haartz GmbH, Heuliez SA, HOERBIGER Automotive Komfortsysteme GmbH, Inalfa Roof Systems BV, IVM Automotive GmbH & Co.KG, Kämmerer AG, Kiekert AG, Magna Steyr Fahrzeugtechnik AG & Co. KG, Meteor Gummiwerke GmbH & Co. KG, Metzeler Automotive Profile GmbH, ISE Industries GmbH Werk Witten, Open Air Systems GmbH, PARAT Automotive Schönenbach GmbH & Co. KG, Pollmann Austria OHG, Power Packer Europa, Robert Bosch GmbH, Thomas Magnete GmbH, Valmet Automotive Inc., Webasto AG, Wilhelm Karmann GmbH



## Speaker's statement:

### Head airbag integration in the door: A solution for convertibles

Increasing safety demands based on the focus to reduce fatalities in side crash and roll over scenarios have led to an innovation of airbag integration. A head protection airbag integrated in a door panel is an adequate solution with potential of best-in-class fulfilment of all current legal and common test protocol specifications. Solutions for limited package, energy management and maximum protection performance are developed by integrating the airbag module into the door trim.

**Sebastian Wandtke, Pole of Competence Door Functions,  
R&D Center, Faurecia Innenraum Systeme GmbH, Scheuerfeld/Germany**



Source: Wilhelm Karmann GmbH



## Exhibitor:

**Metzeler Automotive Profile Systems GmbH**  
- European Technical Centre -  
**Bregenzerstrasse 133**  
**D-88131 Lindau**  
[www.metzeler-profiles.com](http://www.metzeler-profiles.com)



Metzeler Automotive Profile Systems is the global leader for the development and production of automotive sealing systems. 34 production sites in 18 countries guarantee global presence and international customer focus. Customers of Metzeler APS are all international OEMs as well as a large number of Tier 1 suppliers. Metzeler's new European Technical Centre provides state-of-the-art testing and development facilities.

**Contact: Dr. Bernd Westerhoff**  
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[info@maps-eu.com](mailto:info@maps-eu.com)

Day One: Monday, 25 September 2006

**Chairman**

**Prof. Jörg Grabner,**  
**Car Body Design, Munich University of Applied Sciences/Germany**

8.30 am Reception and hand out of the documents

9.00 Welcome address by CTI and opening by Prof. Jörg Grabner

**9.15 Car body structures and definitions**

- Cabriolet, Roadster, Limousine, Speedster and Spider
- Outlook: RHT and further derivatives

**Prof. Jörg Grabner,**  
**Car Body Design, Munich University of Applied Sciences/Germany**

**9.45 The fascination of open vehicles**

- Current car body forms and roof systems in overview
- Not every niche has to be occupied
- Are there success criteria for open vehicles?
- The development for a new segment as on the example "Karmann SUC"
- Nice new world - the convertible market in the future



**Jörg Steuernagel, Karmann Design Studio,**  
**Wilhelm Karmann GmbH, Osnabrück/Germany**

10.45 Coffee and networking break

**Process management****11.15 Management of the cooperation with an OEM and a roof systems supplier**

- Cooperation during the product development phase and in SE-teams
- Prototype builds and testing phase, with their responses
- Pre-series and launching with ramp-up activities

The manufacturing process of the cabriolet is simultaneously planned and developed, built, trimmed, tested, taken into use and verified, during the above phases and their activities.

**Vesa Korhonen, Director, Project Sales, Valmet Automotive Inc.,**  
**Uusikaupunki/Finland**



12.15 Lunch

**Textile trends by softtops****1.45 pm The evolution of convertible soft top textiles – past, present, future**

- Durability
- Performance
- Design
- Emotions



**Rüdiger Ernst, Managing Director, Haartz GmbH,**  
**Mannheim/Germany and**



**John Capron, Vice President, Sales & Marketing/Exteriors,**  
**Haartz Corporation, Acton, MA/USA**

**2.30 Headliner in Softtop- and RHT - Cabrios**

- Design und function for Softtop – Cabrios
- Design and function for RHT – Cabrios
- Sample and new technology in Softtop and RHTs
- Standards on material for headliner



**Johann Blöching, Project Manager, Parat Automotive**  
**Schönenbach GmbH & Co. KG, Neureichenau/Germany**

3.15 Coffee and networking break

**Plastics in convertibles****3.45 Plastic concepts and innovations**

- New styling possibilities with plastics
- Integration, modularisation and decrease in weight
- Plastic possibilities in convertibles

**Friedbert Schmitt, Managing Director,**  
**Freeglass GmbH & Co. KG., Schwalkheim/Germany**

**Convertible ECU's****4.30 From Alfa to Z4: Modular solutions for customer specific convertible ECU's**

- Tailored solutions for various requirements of roof kinematics, sensors and actuators

- High flexibility meeting the current sets of engineering standards
- One stop solution: Development and production process



**Dr. Klaus Thelen, Hardware Development Manager,**  
**Helbako GmbH, Heiligenhaus/Germany**

**Excursion – Creativity****5.15 Power session for new ideas**

- What kind of thinking techniques do genius people like Leonardo da Vinci, Albert Einstein or Stephen Hawkins use?
- Can each of us learn to become more creative?
- How can we use advanced brainstorming & lateral thinking techniques to stimulate new ideas?



**Sven Poguntke, Business Development Consultant,**  
**Frankfurt/Germany**

6.00 Closing remarks by Prof. Jörg Grabner

**6.15 Evening event**

The Car Training Institute invites you to a cocktail after the closing remarks. Later in the evening we are going to make a sightseeing trip through the city of Mozart: Salzburg. Use your chance to spend a relaxed evening with your colleagues, delegates and speakers, and exchange information and contacts in a very nice restaurant in Salzburg.



Day Two: Tuesday, 26 September 2006

Chairman  
Prof. Jörg Grabner

8.25 am Opening by Prof. Jörg Grabner

## Sealing technologies

8.30 Watermanagement of sealing systems

- Development plan
- Primary and secondary watermanagement
- Special requirements of RHT



Evelyn Lerbs, Technical Teamleader, Metzeler Automotive Profile Systems, Lindau/Germany

## Safety aspects

9.15 Global automotive anti squeeze standards

- Anti squeeze standards
- Squeeze force measurement systems
- Pinch protection technologies



Detlef Heyn, Manager Electric/Electronic, Arvin Meritor Roof Systems, Dietzenbach/Germany

10.00 Coffee and networking break

10.30 Head airbag integration in the door: A solution for convertibles

- Head airbag is an integrated part of the top roll
- Current legal and common test protocol specifications
- Requirements of limited package, energy management and maximum protection performance



Sebastian Wandtke, Pole of Competence Door Functions, R&D Center, Faurecia Innenraum Systeme GmbH, Scheuerfeld/Germany

## Challenges on small and cross cars

11.30 Cross car application of roof systems – potentials and limits

- Vehicle and system requirements for cross car usage
- Cross car technical opportunities
- Reference example and forecast



Heinz Krendlesberger, Head of Department Closures, MAGNA STEYR Fahrzeugtechnik AG & Co. KG, Graz/Austria

12.30 Lunch

2.00 pm Design challenges for RHT design on small cars

- The concept car BERTONE "Suagnà"
- A real 4-seater in a b-segment car is possible?
- Design alternatives for backlight and rear end



Fulvio Trivero, Project Manager, Bertone Engineering Division, CARROZZERIA BERTONE S.p.A., Grugliasco (Torino)/Italy

3.00 Coffee and networking break

## Open top concepts

3.30 Opel Astra Twin Top: A roof is dancing Lambada

- Reasons for building RHT's with a multiple roof part design instead of softtop's
- Engineering concept selection
- Concept integration
- Relationship OEM - supplier
- Summary and future outlook



Klaus-Rudolf Reuter, Program Manager Astra Twin Top, Adam Opel GmbH, International Development Center, Rüsselsheim/Germany

4.15 VW EOS and its innovative roof system



Sven Franke

and



Stefan Bülow, Technical Development, Volkswagen AG, Wolfsburg/Germany

5.15 Closing remarks by Prof. Jörg Grabner

5.30 Close of forum





Car Training Institute

## Who we are

The Institute for International Research (IIR) is one of the world's biggest conference and congress organisers. The Car Training Institute (CTI) was established as part of IIR Deutschland GmbH at the beginning of 2003, and focuses exclusively on organising events relating to automotive technology.



## Always in the know

International experts from the automotive industry meet at more than 200 CTI events every year to find out about all the latest technological developments in their field. All of our events are based on extensive market research and are developed in close cooperation with experts from the automotive industry. Papers from manufacturers, suppliers and scientific representatives result in a good mix of theory and practice.

## Experts meet

CTI events are attended by all sorts of people, from engineers and constructors from various fields to heads of R&D and managing directors. The events are also used by staff and executives from the fields of marketing, purchasing, production and quality management as a forum for learning about the latest developments and trends.



## CTI upcoming events

6th International CTI Forum

### Automotive Seats

28.-30.06.06, Nürnberg  
www.automotive-seats.com

4th International CTI Forum

### The future of the car body

10.-12.07.06, Augsburg  
http://www.iir.de/karosserie

2nd International CTI Forum

### Automotive Interior

09. - 12.07.06, Stuttgart  
http://www.automotive-interior.com

## Something to suit all tastes

We offer various event formats, ranging from seminars in which information is shared and discussed in small groups to conferences and congresses, where the delegates can put together their own, personal programme of events from various series of papers being presented simultaneously.

## Exhibition and sponsorship

The Car Training Institute sees itself as an industry forum. CTI events are therefore a perfect platform for companies to draw attention to themselves as exhibitors or as sponsors. More than 170 companies have exploited this opportunity in recent years.



## Statements

- Very good selection of individual lecture topics.  
**Georg Olma, Senior Application Engineer Sensors Europe, Motorola GmbH**
- Lectures met highly professional standards in the field. Sufficient time after lectures and during breaks for discussion.  
**Uwe Beutnagel-Buchner, R&D, Robert Bosch GmbH**
- Wide variety of topics, competent lecturers.  
**Peter Anton, R&D, smart GmbH**
- Outstanding event management and a highly professional level.  
**Stefan Daniels, European Sales Manager, Saint Gobain Performance Plastics Kontich NV**
- A good overview of the latest trends, rounded off by a comprehensive selection of interdisciplinary lectures.  
**Brigitte Nitsche, Advanced Developments Systems and Products, Hella KG Hueck & Co.**



## Your CTI contacts



### Product Manager:

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# International CTI-Forum Cabriolets 2006

To handle your registration efficiently, please make use of this registration form.

CTI, Div. E/ST, Postfach 1050, D-65836 Sulzbach/Ts.

## Hot topics

- **Process management:**  
How can the cooperation between car makers and cabriolet system manufacturers be improved?
- **Material and system requirements:**  
Do RHTs or softtops have better design possibilities?
- **New segments:**  
What are the main trends and future outlooks?

Mailcode:

### Is your address correct?

If not, contact our Directmarketing-Service-Division:

Phone: +49 (0) 6196/585-434, Fax: +49 (0) 6196/585-400

E-Mail: [address@car-training-institute.com](mailto:address@car-training-institute.com)

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Internet

[www.cabrio-forum.com](http://www.cabrio-forum.com)

Post CTI

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Yes, I want to register on:	Date	Price until 7 July 2006	Price until 18 August 2006	Price from 19 August 2006	Code
<input type="checkbox"/> Forum	25 and 26 September 2006	€ 1.695,- 	€ 1.795,- 	€ 1.895,-	E1274R-09

I cannot take part in this event but I am interested in the documentations. Please send me one copy at a price of € 425.00 (All prices exclude VAT)

- Please inform me about sponsorship or exhibition opportunities

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Jobtitle \_\_\_\_\_ Division/Department \_\_\_\_\_

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Jobtitle \_\_\_\_\_ Division/Department \_\_\_\_\_

Approving Manager \_\_\_\_\_

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Signature \_\_\_\_\_ Date \_\_\_\_\_

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### Participation fee

Prices (all prices exclude VAT) are to be understood as being per person and include documentation, luncheon and refreshments. When we have received your registration, you will be sent an acknowledgment of registration and an invoice. The amount invoiced will be due – without any deductions and completely net – upon your receiving the invoice, and no later than 14 days prior to the commencement of the event.

### Group discount

If more than one employee of your company jointly books the same date at the same time, the second participant will receive a 10% discount, the third participant a 20% discount, the fourth participant a 30% discount, the fifth participant a 40% discount and the sixth participant a 50% discount. Each additional participant will also receive a 50% discount. (These discounts are not valid in conjunction with any other discounts or special offers.)

### Date and Venue

Forum: Monday, 25 September 2006 8.30 am – 6.15 pm, Evening event  
Tuesday, 26 September 2006 8.25 am – 5.30 pm

### Hotel Schloss Fuschl & Arabella Sheraton Hotel Jagdhof

Schloss Straße 1, A-5322 Hof by Salzburg  
Tel.: (+43) (6229) 2372 2566, Fax: (+43) (6229) 2372 2570

The hotels hosting the event will have a limited quota of rooms available on special terms. They also offer you a weekend special. Please get in touch with the hotels directly well in advance.

### Cancellation/Re-Booking

If the registration is cancelled no later than 30 days before the date of the event, we will charge no cancellation fee. In the event of cancellation during a period of 30 to 14 days prior to the date of the event, we will charge a processing fee amounting to 50% of the participation fee. If attendance is cancelled at a later date, the whole of the participation fee will be charged unless proof is furnished, in the individual case, to show that the amount of the loss or expense incurred differs from this. Cancellations have to be made in writing. Changes in the booking arrangements (nomination of substitute participants/a different IIR event) can be made at any time. In this case, a fee of € 50.- (ex VAT) will be due. These fees will not apply if the change in the booking arrangements has occurred for reasons for which IIR Deutschland GmbH is responsible.

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