

# International Conference and Exhibition

March 21<sup>st</sup> / 22<sup>nd</sup>, 2007

Mannheim, Germany

*simultaneous translation!*

International Conference  
**Plastics in  
Automotive Engineering**  
and Exhibition

Internationaler Kongress  
**Kunststoffe**  
**im Automobilbau**  
und Fachausstellung

# International Conference Plastics in Automotive Engineering

On **21<sup>st</sup> and 22<sup>nd</sup> March 2007** VDI will be holding the International Conference “**Plastics in Automotive Engineering**” organized by VDI Wissensforum in cooperation with VDI-Society for Plastics Technologies. This high-quality event is widely recognized as “the” meeting-place for the automotive industry.

## Innovative variety

Plastics have a decisive influence on both the conceptual design and the appearance of new generations of vehicles. Development objectives such as aesthetic appeal and comfort, safety and lightweight construction, or quality and costs are affected directly by the material concept and the corresponding processing and manufacturing technologies.



## The conference

In 2007 the conference will focus in particular on:

- **Freedom of design**
- **High quality interiors**
- **Comfort and ease of handling**
- **Lightweight design concepts**
- **Noise control and damping**
- **Safety and passenger protection**
- **Networking in development processes**
- **Fuelconsumption and Emission**

## Conference Content Coordination

VDI Society for Plastics Technologies

## VDI Technical Advisory Board for Plastics in Automotive Engineering

Baumgart, Hartmut, Dr., Adam Opel AG  
Emmermann, Bernd, Dipl.-Ing., Volkswagen AG  
Kim, Patrick, Dr. Renault, Guyancourt/F  
Kneifel, Eberhard, Dipl.-Ing., MAN Nutzfahrzeuge AG  
Lampe, Thomas, Dr., Volkswagen AG  
Mayer, Andreas, Dipl.-Ing. (FH), IVECO Magirus AG  
Pälmer, Reinhard, Wilhelm Karmann GmbH  
Schuh, Thomas, Dr., DaimlerChrysler AG  
Stauber, Rudolf, Prof. Dr., BMW Group  
Unverfehrrth, Bernd, Dipl.-Ing., EvoBus GmbH  
Vazan, Marcela, Dr., Ford-Werke AG  
Wagner, Dieter, Dipl.-Ing., G., Dr.Ing.h.c.F. Porsche AG  
Wolf, Michael, Dr.-Ing., AUDI AG

## Plastics in Automotive Engineering

System solutions and design approaches based on polymer technologies have sustained the advances in automotive engineering made in lightweight design, active and passive safety features and in the optimisation for aerodynamics and noise abatement. In addition, polymers guarantee attractive designs both for the interior and the exterior in passenger cars and commercial vehicles. Modern styles developed by industrial artists, agreeable impressions of the visual appearance, quality and touch of components are achieved by a targeted use of polymer materials today. The application of plastics allows design solutions for vehicle structures, components and assemblies in passenger cars and commercial vehicles to be optimised for customisation and economic viability. In addition, advanced polymers ensure that motor vehicles continue to have a reduced impact on the environment in a sustained way.

The development and production of polymer-based components for motor vehicles focus in particular on short development cycles and on an optimisation of manufacturing processes for kerbing their cost and enhancing their quality. Computer-aided materials selection, mathematical simulation of the production processes of plastic parts and predictive models for long-term behaviour and service life enable engineers to design and optimise polymer-based components to achieve the targets of economy, effectiveness and efficiency.

The Annual VDI Conference 2007 “Plastics in Automotive Engineering” provides an overview on the most recent advances made for system solutions in polymer engineering in passenger cars and commercial vehicles. Conference speakers give technical presentations on selected polymer-based designs from the fields of car interior, exterior and drive train. In addition, experts report on novel processing techniques for polymer materials and continued development of mathematical modelling associated with plastics. In parallel to the conference, an industrial exhibition for the feedstock producers, automotive suppliers and German manufacturers of passenger cars and commercial vehicles provides valuable and welcome information on current polymer-based products and applications in automotive engineering.

VDI-Gesellschaft Kunststofftechnik invites you cordially to attend the Annual Conference 2007 “Plastics in Automotive Engineering”.



Prof. Dr. Rudolf Stauber

Supported by:  
www.fisita.com  
www.eaec.net



## Information about the conference

Dr.-Ing. Ludwig Vollrath, Gabriele Tietze-Schmitz  
Phone: + 49 (0)2 11 62 14-514, Fax: + 49 (0)2 11 62 14-160  
E-Mail: kunststoffe@vdi.de

[www.vdi.de/automotive](http://www.vdi.de/automotive)

NEW!

## AUTOMOTIVE NIGHT, Tuesday, 20<sup>th</sup> March 2007, Zeughaus 19.30/7:30 pm

May we invite you to the very first „Automotive Night“? It will take place on 20<sup>th</sup> March 2007, the eve of the first day of the Conference. Take the opportunity to enjoy a snack and tune up for this important “gathering of the clan” - courtesy of **Bayer MaterialScience**.

## Wednesday, 21<sup>st</sup> March 2007

### PLENARY SESSION:

Chair: **Prof. Dr. Rudolf Stauber**, BMW Group, Munich

#### 09:00 Welcoming Words and Tributes

**Prof. Dr. Rudolf Stauber**, BMW Group, München

#### 09:15 Gradient Materials and Self-Repair - Learning Technology from Biology

**Prof. Dr. Thomas Speck\***, Dr. Deane Harder, Dr. Olga Speck, Universität Freiburg, Freiburg i.Br.

#### 09:45 Future Mobility - Scenarios from 2025

**Dr. Walter Hell**, Institut für Mobilitätsforschung (BMW Group), Berlin

passenger and freight traffic - modes of transportation - demography - economic development - infrastructure - technologies

#### 10:15 Availability of Oil and Refinery Products as Sources of Energy

**Dr. Klaus Picard**, Mineralölwirtschaftsverband e.V., Hamburg

current situation of reserves and resources - developments in the market for petroleum products - influence of political climate on sales scenarios - consequences for refinery structure - future balance of supply and demand

#### 10:45 BREAK and visit of the EXHIBITION

### NEW TECHNOLOGIES

Chair: **Prof. Dr. Rudolf Stauber**, BMW Group, München

#### 11:30 Heavily Loaded Safety Components in E-LFT Technology

**Diego Jaggi\***; Dipl.-Ing. Stefan Ziegler; Dipl.-Ing. Andreas Rüegg, Esoro AG, CH; Dipl.-Ing. Norbert Stötzner, Weber Fibertech

IE-LFT process - E-LFT sample component 2/3 rear seat-back - E-LFT series component tailgate Smart ForTwo - components targeted for E-LFT; Summary; Outlook

### EXTERIOR

Chair: **Dr. Thomas Schuh**, DaimlerChrysler AG, Sindelfingen

#### Modular Car Body Design, Example: Front End of the new X5

**Dipl.-Ing. (FH) Udo Hafner\***, **Dipl.-Ing. (FH) Joachim Wehner\***, Dipl.-Ing. (FH) Stefan Adler, BMW Group, München

Maximum design freedom for the front end - modular structure satisfies vehicle requirements - materials requirements - selection of materials - designing parts for plastics - outlook

#### 12:00 Film Technology for Plastic Add-on Exterior Parts

**Dr.-Ing. Walter Aichholzer\***, Dr. Matthias Beyer, Bernd Kettemann, DaimlerChrysler AG, Sindelfingen  
Paint-substitute technology - UV paint film - coating techniques - deep-drawing - radiation curing - PUR/SRIM foam technology - integrating antennae

#### Cost reduction approaches for exterior plastic parts\*

**Nicolas Piccirelli**, Renault, Guyancourt, F  
Molded-in colors - quality - appearance - cost - validation

#### 12:30 LUNCH at the EXHIBITION

The old residence city of Mannheim is famous for music, museums and mobility (1818: Carl Freiherr Drais invents the bicycle - 1886: Carl Benz invents the automobile)

The modern Rosengarten Congress Center provides a perfect setting for the international Congress and Exhibition “Plastics in Automotive Engineering“



Zeughaus C5, Mannheim

## INTERIOR

Chair: **Dipl.-Ing. Bernd Emmermann**, Volkswagen AG, Nutzfahrzeuge, Wolfsburg

### 14:00 Materials and surface concepts in the Skoda Roomster (tailgate exterior as well)

**Jens Rückert**, Skoda Auto, Mlada Boleslav, CZ  
High quality and low cost - hybrid tailgate - modular switch panel - exterior styling elements - Scout version with applications

### 14:30 Materials selection in a World car: the Renault / Dacia LOGAN

**Alain Giocosa**, Dr. Patrick Kim, Renault, Guyancourt, F  
Specifications - low cost - LCC suppliers - competitiveness - materials selection

### 15:00 Experience with 'Nano-coating' for Modifying Leather and Leather-look Surfaces

**Rolf Danzebrink**, Nanogate AG, Saarbrücken  
Surface modification and property profiles of nano-coatings - improving abrasion resistance by programming nano-coatings

### 15:30 BREAK and visit of the EXHIBITION

## HIGH-PERFORMANCE APPLICATIONS

Chair: **Dr. Patrick Kim**, Renault, Guyancourt/F

### 16.00 CFC Technology at BMW - Today and Tomorrow

**Dipl.-Ing. (FH) Martin Derks\***; **Dipl.-Ing. Franz Birzle\***, BMW Group, München; **Dipl.-Ing. H. Pfitzer**, BMW Group, Landshut  
Design and production methods - example requirements for interior and exterior applications - development targets for future materials systems

### 16.30 Class-A with CFC - Example: Gallardo Spyder Rear Deck

**Dipl.-Ing. Günter H. Deinzer\***, Christoph Hermes, Thomas Scheidewind, **Dipl.-Ing. Herwig Reim**, Audi AG, Ingolstadt; **Dipl.-Ing. Attilio Masini**, Automobili Lamborghini S.p.A., Sant'Agata Bolognese, I; **Dipl.-Ing. Jürgen Enz**, ACE GmbH, Immenstaad  
Economic feasibility study - requirements on future CFC materials and process technology

### 17.00 Application of High-Performance Plastics in the Bugatti Veyron

**Dr.-Ing. Oliver Schauerte\***, **Dr.-Ing. Wolfgang Schreiber**, **Dipl.-Ing. Albert Finbeiner**, **Dipl.-Ing. Eduard Ene**, **Dipl.-Ing. (FH) Daniel Starmann**, Bugatti Engineering, Wolfsburg  
Fiber-composite materials - carbon fiber - CFC - light-weight - Body-in-Black - mold core - prepreg - RTM

### 17.30 STANDING RECEPTION at the EXHIBITION

## EXTERIOR

Chair: **Dr. Thomas Lampe**, Volkswagen AG, Wolfsburg

### Requirements for Materials used in modern Headlights and Luminaires

**Dr.- Ing. Dipl.- Phys. Axel Schrödter\***, **Dipl.-Ing. Berend Wegner**, Volkswagen AG, Wolfsburg  
Vehicle illumination - loads - polymer materials - temperature load

### New Materials Generation for Side Wall of 3 Series Coupe and Convertible

**Dipl.-Ing. Jürgen Korzonnek\***, BMW Group, München; **Dipl.-Ing. Robert Killermann\***, BMW Group, Landshut  
Materials requirements for online painting - materials selection - component development and process simulations - component production concept and mold concept - automated assembly in car body construction - online painting

### Thermoforming Class "A" Exterior Parts at GM +

**Charles Buehler\***, Dave Mattis, GM Corp., Warren, USA; **Dr. Hartmut Baumgart**, Adam Opel GmbH, Rüsselsheim  
Thermoforming - TPO - Paint Film - Color-Match-to-Body

## POWERTRAIN

Chair: **Dipl.-Ing. Dieter G. Wagner**, Dr.Ing.h.c.F. Porsche AG, Weissach

### Challenges and Innovations for Plastic Components in the Engine Compartments of Supercharged Engines

**Dipl.-Ing. (FH) Thomas Jessberger**, Mann + Hummel GmbH, Ludwigsburg  
Market situation for supercharged engines - function integration, example intake system - intake acoustics - damping and designing - innovations for new and proven components

### Influence of Ethanol Content in Gasoline on Elastomers and Plastics

**Sven Himmel\***, Peter Schulz, Carmen Wloka, Lutz Wohlfarth, Volkswagen AG, Wolfsburg  
Use of gasolines with ethanol content - market situation and future trends - affect on property profiles of various elastomers - affect on mechanical properties of fuel-relevant plastics

### Highly efficient Multitwister® Oil Separator System - Small-Format Polymer Technology

**Dipl.-Wirt.-Ing. (FH)**, **Dipl.-Ing. (BA) Christian Schürle**, Reinz-Dichtungs-GmbH, Neu-Ulm  
separating oil from blow-by gas - classification, requirements and description of oil-separation systems - comparison with alternative oil-separation concepts - attractive design features of Multitwister

## SIMULATION

Chair: **Reinhard Pälmer**, Wilhelm Karmann GmbH, Osnabrück

09:00 **CAE Driven Development of Interior Components - Status and Future Challenges\***  
**Dipl.-Ing. (FH) Thomas Enderich\***, Dr.-Ing. Beate Lauterbach, Dr.-Ing. Steffen Frik, Adam Opel GmbH Rüsselsheim; Anders Eriksson, Saab Automobile, AB, Trollhattan, S  
Current interior components contain a material mix of steel, polymers, and textiles - The paper gives an overview of current simulation applications and simulation techniques.

09:20 **Virtual Interior Development**  
**Dipl.-Ing. Michael Hagemann\***, Dipl.-Ing. Ulf Hillemann, Volkswagen AG, Wolfsburg  
Materials models - non-linear structural mechanics - low-cycle dynamics - creep - vibration analysis - modeling strategy

09:40 **CAE Development of Plastic Crashpads, Example: Corsa Door Panel**  
**Dipl.-Ing. Alexander Thomas\***, Dr.-Ing. Beate Lauterbach, Adam Opel GmbH, Rüsselsheim; Dipl.-Ing. Eric Zimmermann, Faurecia Interior Systems, Scheuerfeld  
introduction - requirements - working principle of cones - stiffness zones - simulation - outlook

10:00 **Optical analysis of the deformation behavior of plastic components under thermal and/or mechanical loading**  
**Prof. Dr.-Ing. Rainer Renz\***, Dr.-Ing. Gerhard Stelzer, Dipl.-Ing. Kamil Jerdonek, TU Kaiserslautern  
Loading - deformation behavior - FE simulation - plastic components - optimal measuring methods - parameter determination - materials characterization

10:20 **BREAK and visit of the EXHIBITION**

## PLENARY SESSION

Chair: **Prof. Dr. Rudolf Stauber**, BMW Group, München

11:00 **Innovations in Materials and Process Engineering for Tomorrow's Vehicles**  
Dr. Ulrich Liman, **Olaf Zöllner\***, Bayer MaterialScience AG, Leverkusen  
Materials properties by neural networks - luxurious surfaces - combination of different processing technologies - possibilities in pilot plant stations

11:30 **Polymer materials and the future**  
**Prof. Dr. Rolf Mühlhaupt**, Uni Freiburg, Freiburg  
Innovations and trends

12:00 **Biopolymers for Technical Applications**  
**Dr. Stefan Greulich**, Du Pont, Le Grand-Saconnex, CH  
Why should we be interested in biopolymers? - What are biopolymers? - How are they produced? - examples of biopolymers and their areas of application - outlook

12:30 **Closing Words**  
**Prof. Dr. Rudolf Stauber**, BMW Group, München

**End of Conference, approx. 13:00/1 pm**

Right of modification reserved

\* Speaker

## COMMERCIAL VEHICLES

Chair: **Dipl.-Ing. Eberhard Kneifel**, MAN Nutzfahrzeuge AG, München

**New concept for plastics in commercial vehicle**  
**Ing. Jocopo Corsi**, IVECO, Torino/I  
weight, recycling, innovation, quality, costs

**Half a million Thermoplastic Exterior Components Painted Inline - per Year!**  
**Dipl.-Ing. (FH) Hartmut Häberle**, MAN Nutzfahrzeuge, München  
History - description of assembly - materials - series validation of all process steps - data (costs, weight)

**Plastics Concepts in the VW Constellation**  
**Dipl.-Ing. Joerg Hain\***, Dipl.-Ing. (FH) Andreas Teuber, Volkswagen AG, Wolfsburg  
Requirements profile of South American market - plastics concepts exterior - plastics concepts interior - PP instrument panel

**Developing a new Generation of Urban Bus Seating**  
**Dipl.-Ing. Roland Scharl**, EvoBus GmbH, Mannheim  
Modular structure of seating family to produce all configurations - innovative mold technology - significant shape language - benchmark for installation space and weight - total function integration with vehicle-specific concept

+This paper will be delivered in English

## The exhibition

A highlight of the automotive conference in Mannheim is the exhibition which is held in parallel with it. Our exhibition is held directly adjacent to the conference. It is an attractive opportunity for you to present your products and services to an interested and well-informed specialist public. Here you can talk directly to your core target group.



In the lobby of the Congress Center plastic components from quantity production as well as innovative, forward-looking exhibits and system solutions may be viewed. The exhibition is supplemented by an automobile salon with current models of cars and commercial vehicles.



## The exhibition covers

- Development of materials and components
- Component calculation and simulation
- Mass-produced components for the car interior and exterior
- Engineering services
- Tool- and mould-making



Select one of three types of presentation

- Platform area
- Fully equipped system stand
- Floor space for company's own stand construction system

## Exhibitors

Among those registered for the 2007 exhibition are: A.Schulman GmbH, Albis Plastics GmbH, AVK-TV e.V., BASF Aktiengesellschaft, Bayer MaterialScience AG, Bertrandt AG, BRANSON ULTRASCHALL Niederlassung der EMERSON, color plastic chemie Albert Schleberger GmbH, csi-entwicklungstechnik GmbH, Decoma Germany GmbH, Degussa, Röhm Formmasse, DEMAT GmbH, Dow Automotive, DSM Engineering Plastics, EJOT GmbH & Co. KG, Elastogran GmbH, EMS-Chemie (Deutschland) GmbH, European Alliance for SMC/BMC, c/o AKV e.V., Evolution-Team Bruno Sattler GmbH, ExxonMobil Chemical Europe Inc., Frimo Group GmbH, GE - Plastics (Automotive), Georg Kaufmann Formenbau AG, HBPO GmbH, Husky Injection Molding Systems, Hüthig GmbH & Co. KG, interform engineering GmbH & Co. KG, Intier Automotive Europe, J&A Plastics GmbH, KIEFEL AG, KRAIBURG TPE GmbH & Co. KG, Krauss-Maffei Kunststofftechnik GmbH, LANXESS Deutschland GmbH, Leonhard Kurz GmbH & Co. KG, Manfred Jacob Kunststofftechnik GmbH, Minelco GmbH, Nova Chemicals Vertrieb GmbH, Peguform, PolyOne, Pröll KG, Resin Express GmbH, ROWA GmbH, SABIC Deutschland GmbH & Co. KG, SAXONIA Galvanik GmbH, Schmale GmbH, Schneider Form GmbH, SEKISUI ALVEO AG, Senco (Europe) GmbH, Solvay Advanced Polymers, SWA s.r.o., Ticona GmbH, TREXEL GmbH, Victrex Europa GmbH, Wipac Süd GmbH & Co. KG



## Information about the exhibition

... can be obtained from Heinz Küsters  
VDI-Wissensforum IWB GmbH  
Tel.: + 49 (0) 2 11 62 14-5 92  
Fax: + 49 (0) 2 11 62 14-1 67  
E-Mail: [fachausstellungen@vdi.de](mailto:fachausstellungen@vdi.de)

We look forward to seeing you!

# Information

## Organizer

VDI Wissensforum IWB GmbH

The scope of services includes **lunch**, the **evening event** and a **beverage during breaks**. The **conference hand-book** will be distributed on the spot to attendees.

**Additional offer: If you attend the conference, we offer you the opportunity of VDI membership for six months free of charge.**

## Information and application

VDI Wissensforum IWB GmbH

Customer centre	Telefon +49 (0) 211 62 14-201
P.O. Box 10 11 39	Telefax +49 (0) 211 62 14-154
40002 Düsseldorf,	wissensforum@vdi.de
Germany	www.vdi-wissensforum.de

**Applications** must be made in writing. We will send you confirmation of registration and the invoice. Please do not pay the conference fee until you have received the invoice.

## Location of conference

Congress Center Rosengarten  
Rosengartenplatz 2, 68161 Mannheim, Germany  
Phone +49 (0) 621-4106 - 0 (switchboard)  
www.mcon-mannheim.de

## Conference office

Congress Center Rosengarten, lobby  
Phone +49 (0) 621-4106-5002  
Fax +49 (0) 621-4106-5901

## Office hours:

Wednesday, 21 <sup>st</sup> March 2007	8:00 am to 8:00 pm
Thursday, 22 <sup>nd</sup> March 2007	8:00 am to 2:00 pm

## Conference languages

German and English (with simultaneous translation)

## Note

Make best use of your time in Mannheim for contacts and save yourself waiting time when the conference begins by picking up your conference documents on Tuesday, 20<sup>th</sup> March 2007 between 6:00 pm and 9:00 pm at our late check-in facility in the Dorint Kongress-Hotel Mannheim.

## Room reservation

Conference hotel  
Dorint Kongress-Hotel Mannheim  
Friedrichsring 6, 68161 Mannheim, Germany  
Phone +49 (0) 621-12510  
Fax +49 (0) 621-1251100  
www.accorhotels.com

We have a number of rooms reserved at the Dorint Kongress-Hotel, Mannheim, at a special rate of € 161.50 per single / € 178,00 per double room including breakfast (please quote the booking code: vdi2007).

**Early reservation of rooms is recommended.**

## Accommodation service

m:con Hotelreservierung  
Rosengartenplatz 2  
68161 Mannheim  
Telephone +49 (0) 621-4106 -8641  
Fax +49 (0) 621-4106 -80222

## Getting there

### By car:

A 5 - A 6 - A 61

### By train:

From the station it is 0.8 km to the Congress Center Rosengarten

### By air:

Airport in Frankfurt/Main, then A 5 - 80 km to Mannheim

## Parking

We have reserved parking places for you in the 'Rosengarten' and 'Wasserturm' underground car parks which have direct access to the Mannheim Congress Center. The special price is € 16.80 + VAT. The parking ticket is valid from 1 pm March 20<sup>th</sup> to 5 pm March 22<sup>nd</sup> and entitles the holder to come and go in either car park as desired. The number of parking places is limited so make sure you book a place early with your conference application. Orders will be processed on a first come, first served basis.



Payment should be made by bank transfer upon receipt of the invoice. Please note that the bank transfer form must bear the invoice number. The local conference office cannot accept cash payments but can accept credit card payment by our non-EU foreign attendees (American Express, Diners Club, Eurocard/ MasterCard and Visa).

## Terms and Conditions

With registration, the participant accepts the terms and conditions of VDI Wissensforum IWB GmbH. Cancellations must be made in writing. If registration is cancelled 14 days prior to commencement of the conference, an administration fee of EURO 50 plus VAT will be charged. After this date, the invoiced participation fee is payable in full. The postmark is decisive. In this case, the conference documents will be sent against return. It is possible to have someone else attend the course instead of a registered person by agreement. If a course has to be cancelled due to unforeseen circumstances, participants will be immediately notified. In this case, the participation fee will be refunded if already paid. In exceptional cases, we reserve the right to change lecturers and/or the conference content without prior notice. In any event, the liability of VDI Wissensforum IWB GmbH is limited solely to the participation fee.



Anmeldeformular/Registration form  
International Conference  
Plastics in Automotive Engineering

March 21<sup>st</sup> and 22<sup>nd</sup>, 2007 · Mannheim, Germany  
Telefax: +49 (0) 211 62 14-1 54

(IWB) 328704

Updated details on the International Conference on Plastics in Automotive Engineering can be found under:

[www.vdi.de/automotive](http://www.vdi.de/automotive)

- Conference topics and schedule
- Exhibition



Surname/Nachname	First Name/Vorname	Title/Titel
Company/Firma/Institut		
Department/Abteilung des Teilnehmers	Country/Land	
Post Code, City/PLZ, Ort	P.O. Box or Street/Postfach oder Straße	
Phone/Telefon	Fax/E-Mail	

**Conference Fees/Teilnahmegebühren** Fees plus VAT/Preise zzgl. MwSt.  
including coffee breaks, lunch, welcome-reception and proceedings

		EUR
<input type="checkbox"/>	1 Charge for attending / Teilnahmegebühr	870,00
<input type="checkbox"/>	2 VDI, FISITA, EAEC members / VDI, FISITA, EAEC-Mitglieder	783,00
<input type="checkbox"/>	3 VDI, FISITA, EAEC members at Universities / VDI, FISITA, EAEC-Mitglieder von Hochschulen	435,00
<input type="checkbox"/>	N1 Parking ticket (special price) from March 21 - 22, 2007 / Parkticket (Sonderpreis) gültig vom 21. - 22. März 2007	16,80
<input type="checkbox"/>	N2 Automotive Night, March 20 <sup>th</sup> 2007, Zeughaus	15,00

Für studentische VDI-Mitglieder haben wir ein Kontingent von Freikarten reserviert. Bitte nehmen Sie frühzeitig Kontakt auf mit Gabriele Tietze-Schmitz, Tel.: +49 (0) 211 6241 - 514, kunststoffe@vdi.de

For price levels 2 and 3 you must quote your membership society and membership no./Für die Preisstufen 2 und 3 ist die Angabe der VDI-Mitgliedsnummer erforderlich.

VDI member-no./VDI-Mitglied-Nummer

FISITA/EAEC society:  member-no.:

Please send me information about the 6-months free VDI membership./  
Bitte senden Sie mir Informationen für die 6-monatige kostenfreie VDI-Mitgliedschaft zu.

Date/Datum  Signature/Unterschrift

Payment by credit card, for foreign (non-EU) participants

Eurocard/Mastercard  VISA  American Express  Card number

amount of: EUR  Valid from date  expiry date

Address at which card is registered if different from above

Date/Datum  Signature/Unterschrift



## Tagungskalender 2007 Kunststofftechnik



### Polyurethan

24./25.01.2007 in Bad Neuenahr  
mit Fachausstellung

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### Spritzgießen

14./15.02.2007 in Baden-Baden  
mit Fachausstellung

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### Kunststoffe im Automobilbau

21./22.03.2007 in Mannheim  
mit Fachausstellung

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### Blasformtechnik

08./09.05.2007 in Baden-Baden

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### Extrusionstechnik

13./14.06.2007 in Neu-Ulm

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### Elastomerspecial

23.10.2007 in Düsseldorf

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### Aufbereitungstechnik

28./29.11.2007 in Köln

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