INSTITUT FÜR
KUNSTSTOFFVERARBEITUNG
IN INDUSTRIE UND HANDWERK AN DER RWTH AACHEN



December 2 - 3, 2014 | Aachen ▪ Germany

International Injection Moulding Conference

www.iimc-aachen.com

Welcome



Ladies and Gentlemen,

The Institute of Plastics Processing (IKV) in Industry and the Skilled Crafts at RWTH Aachen University invites you to the "International Injection Moulding Conference" (IIMC) which is being held in Aachen on 2 and 3 December 2014.

The conference focuses on injection moulding-related innovations and process combinations specifically designed for automotive applications. It is bringing together leading experts in automotive design, automotive engineering as well as in plastics injection moulding and plastics material technology, who will present the state of the art as well as the latest research results and provide insights into future developments in the automotive plastics industry. This new approach underlines the unique format of the conference.

Continuous innovations in process technology, materials and mechanical engineering are consistently leveraging the cost-saving potential and challenging traditional materials. Ingenious process combinations and the development of novel materials open up new fields of application for injection moulding. The increased lightweight potential and new freedom of design offered by plastics are permanently creating new design opportunities which are highly appreciated by automotive designers and thus required to meet tomorrow's mobility demands.

These key aspects of injection moulding will be addressed during the conference by leading international experts from all areas of both, the automotive and the injection moulding industry.

IKV, the institute hosting the conference, is promoting the advancement of plastics engineering since more than 60 years through both innovative research and practice-oriented technology development. The Institute of Automotive Engineering (ika) of RWTH Aachen University, is the leading research institute since more than 100 years providing a holistic approach on automotive research and Professor Fügener is without any doubt an expert with outstanding reputation in automotive design worldwide. In the light of the topics selected, plus the accompanying trade exhibition, and also given the variety of visitors expected, this new conference will provide an unique platform for an inspiring international exchange between industry, development and research.

We look forward to welcome you in Aachen.

Sincerely yours,

Prof. Dr.-Ing. Ch. Hopmann

About IIMC and IKV



Main topics

- New technological developments in injection moulding
- Future application demands in terms of design and technology
- Process combinations
- Lightweight engineering
- Injection moulding of optical components

The conference language is English.

Target audience

The conference is addressed to national and, in particular, international executives and senior experts in design, development, part and mould construction, application engineering, production and quality assurance.

Social programme

The social programme for the International Injection Moulding Conference is the ideal opportunity for you to network with experts from the entire industry, renew professional relationships and establish new business contacts.

- Experience the cutting edge equipment and technology in IKV and ika pilot plants and laboratories (Tuesday, December 2, 2014, 3.00 pm - 5.00 pm).
- Discover more than 1,200 years of history by a very special city tour (Tuesday, December 2, 2014, 6.30 pm).
- Enjoy the conference dinner (Tuesday, December 2, 2014, 8.00 pm).

The organiser, IKV

IKV, the Institute of Plastics Processing in Industry and the Skilled Crafts at RWTH Aachen University, with over 300 staff, is the leading research and training institute in the field of plastics technology in Europe. IKV's close cooperation with industry and science, together with its outstanding facilities, enable cutting-edge research in plastics technology and ensure that students benefit from a comprehensive, practically-oriented course of study. Plastics engineering graduates from IKV are thus sought-after experts in industry.

Head of the Institute is Univ.-Prof. Dr.-Ing. Christian Hopmann, who also holds the Chair of Plastics Processing at RWTH Aachen University.

More information:
www.ikv-aachen.com

Programme



- **Tuesday, December 2, 2014**

9.00 **Welcome**
Prof. Dr.-Ing. Christian Hopmann
Institute of Plastics Processing at RWTH Aachen University

9.15 **Current trends in automotive engineering – opportunities for plastics applications**
Dr.-Ing. Peter Urban
Institute of Automotive Engineering (ika), RWTH Aachen University

10.00 **"Novelties and the force of habit" What does it take to make new mobility tools attractive?**
Prof. Lutz Fügener
Hochschule Pforzheim University, Pforzheim (Germany)

10.45 Coffee break

11.15 **Current trends and technological developments in injection moulding**
Prof. Dr.-Ing. Christian Hopmann
Institute of Plastics Processing at RWTH Aachen University

12.00 **From research to practice – plastic technological innovations implemented in automotive series production**
BMW AG (requested)

12.45 Lunch break

13.45 **Flow Front Control – a new concept for high precision injection moulding**
Dr.-Eng. Toru Hirata
Sumitomo Heavy Industries, Ltd., Kanagawa (Japan)

14.30 **Advances in polymer injection moulding with new measuring methods, control solutions and process technologies**
Prof. Dr.-Ing. Georg Steinbichler
ENGEL AUSTRIA GmbH, Schwertberg (Austria)

15.15 **Research live**
- 17.30 Technical centre tour at the IKV injection moulding and fibre reinforced plastics pilot plants and the ika pilot plant

18.30 Social programme and conference dinner

- **Wednesday, December 3, 2014**

9.00 **Welcome**
Dr.-Ing. Hans Wobbe
Institute of Plastics Processing at RWTH Aachen University

9.10 **Development and production of lighting products and solutions**
Dipl.-Ing. Florian Petzold
OSRAM GmbH, Munich (Germany)

Programme



9.40 **Highly transparent LSR for optical components – an enabler for future lighting concepts**
Dipl.-Ing. Heiko Bayerl
Momentive Performance Materials GmbH, Leverkusen (Germany)

10.10 Coffee break

10.40 **Application specific part dimensioning – advanced simulation tools linking moulding process and part properties**
Dipl.-Ing. Pascal Brandt
Institute of Plastics Processing at RWTH Aachen University

11.10 **Combining different processing technologies to produce enhanced polymeric material lightweighting characteristic**
Steve Braig
Trexel Inc., Wilmington (USA)

11.40 **Polymer challenges in automotive exhaust aftertreatment: high-temperature fluid management in SCR (Selective Catalytic Reaction) systems**
Dr.-Ing. Dipl.-Phys. Reinhard Plietsch
VOSS Automotive GmbH, Wipperfürth (Germany)

12.10 Lunch break

13.15 **Empirical results of the processing of hollow glass spheres with physical foaming**
Dominique Manceau
Groupe Plastivaloire, Langeais (France)

13.45 **New lightweight design strategies empowered by injection moulding**
Dr.-Ing. Mathias Weber
Institute of Plastics Processing at RWTH Aachen University

14.15 Coffee break

14.45 **Mass production of thermoplastic composite hybrids: one shot moulding using Tepex today and RIM-PA6 tomorrow**
Dipl.-Ing. Jürgen Knaup
LANXESS Deutschland GmbH, Dormagen (Germany)

15.15 **Mechanical engineering fundamentals for combination technologies**
Dipl.-Ing. Martin Würtele
KraussMaffei Technologies GmbH, Munich (Germany)

15.45 **Panel discussion**

16.15 **Concluding remarks and farewell**
Dr.-Ing. Hans Wobbe
Institute of Plastics Processing at RWTH Aachen University

16.30 End of conference

Registration

International Injection Moulding Conference

December 2 - 3, 2014

Programme, information, registration:
Sigrid Hillebrand M.A., Telefax: +49 (0) 241 80-92811
E-mail: academy@ikv.rwth-aachen.de

Our company is member of the association of sponsors of the IKV
☐ yes ☐ no ☐ unknown

Title

Surname/First name

Telephone

E-mail

Company/Organisation

Department

Job position

Address

Postal code/City/Country

Billing address

Department

Address

Postal code/City/Country

USt-IdNr./VAT-IdNo.

These details are also included in the list of participants which is distributed to all participants. For further participants use a copy of the registration card or download this registration from **www.iimc-aachen.com**

Date Signature

Registration/Exhibition/Aachen



Registration

Many thanks for your registration for the International Injection Moulding Conference (IIMC).

To accommodate the wishes of our customers, you can download a registration form at www.iimc-aachen.com/registration

It is very easy to register:

- Download the PDF form.
- Save it on your computer.
- Fill in the requested details.
- Send it back by e-mail to **academy@ikv.rwth-aachen.de**

Alternatively you can use the form on the back.

- Fill in the requested details.
- Send it back by e-mail to **academy@ikv.rwth-aachen.de**
- or fax +49 (0) 241 80-92811

After your registration you will receive an e-mail confirmation, which could take a few days. At a later day you will receive an invoice from us by post. Please do not transfer the attendance fee until you have received the invoice. All your conference papers will be ready for you to collect from the conference office at the conference venue in Aachen. Should you have any questions regarding your registration contact Sigrid Hillebrand, Telephone: +49 (0) 241 80-93836, E-mail: hillebrand@ikv.rwth-aachen.de

Exhibition

As participating exhibitor at the IIMC you will have an unique and direct access to experts and technical specialist in the field of injection moulding as well as lightweight and automotive applications. Furthermore the exhibition offers you extraordinary possibilities for a short company presentation and is an ideal venue to expand your contacts in this industry in a professional surrounding. Do not miss the unique opportunity and book immediately your exhibition and presentation space at the IIMC!

Your requests regarding the exhibition answers Dipl.-Ing. (FH) Lars Linnemann, Telephone: +49 (0) 241 80-27142, E-mail: linnemann@ikv.rwth-aachen.de

Conference city: Aachen

Aachen has a long tradition of science and research. RWTH Aachen University and the Aachen University of Applied Sciences are responsible for the education of more than 40,000 students, which means that the city is permeated with a young and exciting spirit, especially in the Pontstraße, the headquarters of IKV, and in the old town of Aachen. Visit with us the Aachen Christmas Market – one of the famous in the world. Or pay the Aachen Cathedral a visit, which is just in this year 1,200 years old. You, too, can experience this vibrant atmosphere. About 250,000 people live in the city of Aachen and more than a million live in the surrounding catchment area, the so called Euregio Maas Rhein, which contains parts of Belgium, Germany and the Netherlands.

Chairman and speakers



Prof. Dr.-Ing. Christian Hopmann
Head of the Institute
Institute of Plastics Processing at RWTH Aachen University



Dr.-Ing. Hans Wobbe
Chairman of IIMC
Technology transfer
Institute of Plastics Processing at RWTH Aachen University



Dipl.-Ing. Heiko Bayerl
Marketing Manager Elastomers Automotive Europe
Momentive Performance Materials GmbH,
Leverkusen (Germany)



Steve Braig
President & CEO
Trexel Inc., Wilmington (USA)



Dipl.-Ing. Pascal Brandt
Scientific Assistant
Institute of Plastics Processing at RWTH Aachen University



Prof. Lutz Fügener
Academic Director
School of Design
Hochschule Pforzheim University, Pforzheim (Germany)



Dr.-Eng. Toru Hirata
Senior Engineer
Sumitomo Heavy Industries, Ltd., Technology Research Center, Kanagawa (Japan)



Dipl.-Ing. Jürgen Knaup
Head of Customer Engineer Services
LANXESS Deutschland GmbH, Dormagen (Germany)



Dominique Manceau
Innovative Director
Groupe Plastivaloire, Langeais (France)



Dipl.-Ing. Florian Petzold
Head of Technical Center Molding
OSRAM GmbH, Munich (Germany)

Chairman and speakers



Dr.-Ing. Dipl.-Phys. Reinhard Plietsch
Director R&D
VOSS Automotive GmbH, Wipperfürth (Germany)



Prof. Dr.-Ing. Georg Steinbichler
Vice President R&D Technologies
ENGEL AUSTRIA GmbH, Schwertberg (Austria)



Dr.-Ing. Peter Urban
Vice Director of the Institute
Institute of Automotive Engineering (ika),
RWTH Aachen University



Dr.-Ing. Mathias Weber
Head of Department Injection Moulding
Institute of Plastics Processing at RWTH Aachen University



Dipl.-Ing. Martin Würtele
Head of Technology Development
KraussMaffei Technologies GmbH, Munich (Germany)

Conference venue



Hotel Pullman Aachen · Quellenhof
Monheimsallee 52, 52062 Aachen (Germany)

Parking
There are several parking places in and arround the conference venue.

www.iimc-aachen.com

Event notes

Programme, registration and further information: www.iimc-aachen.com

■ **Organiser/Host**
Institute of Plastics Processing (IKV)
in Industry and the Skilled Crafts at RWTH Aachen University
Prof. Dr.-Ing. Christian Hopmann
Postal address: Pontstr. 49, 52062 Aachen, Germany

■ **Contact**
Sigrid Hillebrand M.A.
Telephone: +49 (0) 241 80-93836
E-mail: academy@ikv.rwth-aachen.de

■ **Event venue**
Hotel Pullman Aachen Quellenhof
Monheimsallee 52
52062 Aachen, Germany
Telephone: +49 (0) 241 9132-0

■ **Attendance fee**
The attendance fee is EUR 1,235 for non-members of the IKV Sponsors' Association, and EUR 1,035 for members. The fee includes the right to attend the conference programme, the exhibition, the conference proceedings, city tour, gala dinner, IKV and ika tour, lunch and drinks during the breaks. Bank and transfer charges are to be paid by the participants.

■ **Registration**
Please use the registration form, which you can detach from the last page and send it back via fax or e-mail. A separate application form should be used for each applicant. IKV will be pleased to send you additional conference programmes on request. **The easiest way to register is to download the registration form online at www.iimc-aachen.com/registration**

■ **Room reservation**
IKV recommends the conference hotel Pullman Aachen Quellenhof for accommodation. IKV placed a hold on for a limited contingent of rooms in this hotel (key word: "IIMC"). This contingent is limited and ends on October 20. For any other hotel, please contact the Aachen Tourist Service e.V. (www.aachen-tourist.de, Telephone: +49 (0) 241 18029-50 or -51, Fax: +49 (0) 241 18029-30, e-mail: incoming@aachen-tourist.de).

■ **Conference proceedings**
The conference proceedings will be distributed at the beginning of the conference.

■ **Data protection**
In accordance with the German Data Protection Act, we would like to point out that we will keep your address in a database and process it with the help of automatic processes.

■ **Cancellations**
Please send any cancellations in writing to IKV. If the cancellation is made by November 18, 2014 we will refund the full paid-up sum less a processing charge of EUR 70. In the event of a cancellation after this date, the full attendance fee must be paid, and we will send you the conference proceedings. IKV reserves the right to cancel the event. If this happens, the attendance fees will be refunded in full. The institute will not be responsible for other obligations over and beyond this.