



www.iimc-aachen.com

Welcome



Ladies and Gentlemen,

on behalf of the IKV – the Institute of Plastics Processing in Industry and the Skilled Crafts at RWTH Aachen University, I cordially invite you to the "4th International Injection Moulding Conference – IIMC 2019" which is being held in Aachen on 10 - 11 April 2019.

IIMC 2019 will focus on the main challenges facing the injection moulding industry: Digitalisation of production, additive manufacturing and 3D printing, modelling and simulation as well as resource efficient production. Since its initiation in 2014, the IIMC has proved a great success both as an inspiring forum for cutting-edge technological innovations in injection moulding as well as a meeting point for leading experts and scientists from all over the world.

Networking and professional exchange are fundamental for your business success. The IIMC offers an ideal platform to meet and talk on many levels: in networking breaks, in the accompanying exhibition and - as a special highlight - in our speed-talk-session on the first conference day. The first ten interested participants will have the unique opportunity to introduce their company in a short presentation to create the basis for exchange with other attendees. Therefore, it is recommended to register soon.

We look forward to welcome you in Aachen. Sincerely yours,

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Prof. Dr.-Ing. Ch. Hopmann

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 cuttingedge 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

About the IIMC



Main topics

- Innovative processing solutions for efficient manufacturing in a circular economy
- Shorter time to market and higher customer satisfaction by additive manufacturing of moulds and parts
- Impact of digitisation on tomorrow's production
- Technological success stories from development to production in automotive, electrical and medical applications

The conference language is English.

Target audience

The conference addresses international executives and senior experts in design, development, part and mould construction, application engineering, production and quality assurance.

Social programme

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

On **Tuesday, 9 April 2019**, we cordially invite you to attend our get-together in the exhibition area of the conference venue. During the get-together you will have the opportunity to make the acquaintance of the speakers, exhibitors and other participants (dress code: business casual).

On **Wednesday**, **10 April 2019** the conference-dinner provides the ideal setting for networking in a relaxed atmosphere.

On **Thursday, 11 April 2019** we offer you the opportunity to visit IKV's technical centres and laboratories on the "Research live"-tour. There you will learn more about the current state of research and development in plastics processing. You will get a deep insight in IKV's newest technologies.

Looking forward to seeing you all there!

Conference venue



Programme

Tuesday, 9 April 2019

19.00 Get-together in the exhibition area

- Wednesday, 10 April 2019
 - 9.00 **Welcome** Prof. Dr.-Ing. Christian Hopmann Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)

Technological success stories from development to production in automotive applications

- 9.10 **New horizons for plastics in automotive applications** Dr.-Ing. Karlheinz Bourdon, Chairman of the IIMC 2019 KraussMaffei Technologies GmbH, München (Germany)
- 9.30 Simulation Methodology for Calculating the Fatigue Strength of Injection-Molded Parts Dipl.-Ing. (TU) Jens Friedrich Hirschmann Automotive GmbH, Rankweil (Austria)
- 10.00 Coffee break

Foam Injection Moulding for automotive applications

- 10.45 Maximizing the benefits of foaming technology Michael Prince PRINCE-WEISS, Eupen (Belgium)
- 11.15 Analysis of the influence of processing parameters on foam structure and mechanical properties of foamed thermoplastic elastomers Yuxiao Zhang, M.Sc. RWTH Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)
- 11.45 Injection moulding of ultrahigh molecular weight polyethylene (UHMWPE) Lih-Sheng (Tom) Turng, Ph.D. University of Wisconsin-Madison, Madison (USA)
- 12.15 Lunch break

Impact of digitisation on tomorrow's production

- 13.30 Advantage and challenges of industry 4.0 evolution for plastic machines and their control architecture Dipl.-Ing. (TH) Thomas Kosthorst BECKHOFF Automation GmbH & Co. KG, Verl (Germany)
- 14.00 Process and measurement data processing as enabler for plastics industry 4.0 (working tilte) Dr.-Ing. Robert Vaculik Kistler Instrumente AG, Winterthur (Switzerland)
- 14.30 **From data acquisition to machine learning New chances for injection moulding** Malte Röbig, M.Sc. RWTH Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)
- 15.00 Coffee break
- 15.30 Speed talk presentations

 Participants present their company and current projects
 Subsequent opportunity for discussion
- 19.00 **Conference dinner** Restaurant "Ratskeller", Markt 40, 52062 Aachen

Programme

- Thursday, 11 April 2019
 - 9.00 Welcome Dr.-Ing. Karlheinz Bourdon, Chairman of the IIMC 2019
 - 9.15 Development of AI systems for smart injection molding based on digital twin Prof. Seong Jin Park Pohang University of Science and Technology, Pohang (Korea)
 - 9.45 The practical implementation of a simulation-driven development approach of high-end products designed from plastics Dipl.-Ing. Jens van Haag Code Product Solutions B.V., Schinnen (The Nederlands)
 - 10.15 Coffee break

Shorter time to market and higher customer satisfaction by additive manufacturing of moulds and parts

- 10.45 Series production using additive manufacturing requires new materials – On the processing of polyamide 6 and polypropylene in selective laser sintering Johannes Lohn, M.Sc., PROTIQ GmbH, Blomberg (Germany)
- 11.15 Additive manufacturing for agile product development in the automotive industry Dr. Wolfgang Meyer, Volkswagen AG, Wolfsburg (Germany)
- 111.45 Industrial additive manufacturing Line integration in mass production Nicolai Lammert, M.Sc. RWTH YIZUMI Germany GmbH, Aachen (Germany)
- 12.15 Lunch break

Innovative processing solutions for efficient manufacturing in a circular economy

- 13.30 Automated optimum design and control technology of injection mold and industry-academia cooperation in Korea Prof. Byung-Ohk Rhee, Ajou University, Suwon (Korea)
- 14.00 Injection molding of continuous fiber reinforced thermoplastic single polymer composites Prof. Dr. Jian Wang Beijing Institute of Technology, Beijing (China)
- 14.30 Coffee break
- 14.50 Process chain from prototype to productive system intermediate cooling technology for multi-layer lenses Dipl.ing. Theresa Distlbacher ENGEL AUSTRIA GmbH, Schwertberg (Austria)
- 15.20 Concluding remarks Prof. Dr.-Ing. Christian Hopmann Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)
- 15.30 **Research live tour** Visit to IKV's technical centres for injection moulding and fibre reinforced plastics
- 17.00 End of conference

Registration

International Injection Moulding Conference

10 - 11 April 2019, Aachen, Germany

Programme, information, registration:

Heinz Dersch, M.A., Telefax: +49 241 80-6-93811 E-mail: academy@ikv.rwth-aachen.de

Our company is member of the association of IKV sponsors □ 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.

Business addresses are included in the list of participants which is distributed to all participants. For further participants use a copy of the registration card which is available to download on **www.iimc-aachen.com**.

Registration - Exhibition - City of Aachen



Registration

Many thanks for your registration for the IIMC – International Injection Moulding Conference. Please use **www.iimc-aachen.com** for registration.

Exhibition

As participating exhibitor at the IIMC you will have a unique and direct access to experts and technical specialists in the field of injection moulding including machine manufacturers and mould makers, material suppliers and processors from different branches. 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 your exhibition and presentation space at the IIMC immediately!

If you have any questions regarding your registration or the exhibition please contact

Heinz Dersch, M.A., Phone: +49 241 80-93811 E-Mail:academy@ikv.rwth-aachen.de



Conference city: Aachen

Besides being the favoured residence of Charlemagne (Karl der Große), Aachen became the place for coronations of German Kings. Around the year 800, Charlemagne built a monumental and complex palace in Aachen which, after his coronation in Rome, became the designated centre of imperial power. Today, the Town Hall is still the place where politics are made. Take the chance and visit the impressive Town Hall of Aachen with us.

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 57,000 students, thus the city is permeated with a young and exciting spirit. Today the Institute of Plastics Processing (IKV) is part of the RWTH Aachen Campus Melaten. The Campus Melaten significantly influences the research competences available at RWTH Aachen University. It creates a unique symbiosis of science and economics, where experts research specifically defined and multidisciplinary relevant topics.

Chairmen and speakers



Prof. Dr.-Ing. Christian Hopmann Head of the Institute Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)



Dr.-Ing. Karlheinz Bourdon Chairman of IIMC Senior Vice President Integration KraussMaffei Technologies GmbH, München (Germany)



Dipl.-Ing. Theresa Distlbacher Technology Specialist Optics / Optical Components ENGEL AUSTRIA GmbH, Schwertberg (Austria)



Dipl.-Ing. (TU) Jens Friedrich Simulation Specialist Hirschmann Automotive GmbH, Rankweil (Austria)



Dipl.-Ing. (TH) Thomas Kosthorst Head of Business Management, Plastic Processing Machines Beckhoff Automation GmbH & Co. KG, Verl (Germany)



Nicolai Lammert, M.Sc. RWTH Head of Additive Manufacturing YIZUMI Germany GmbH, Aachen (Germany)



Johannes Lohn Head of Development and Engineering PROTIQ GmbH, Blomberg (Germany)



Dr. Wolfgang Meyer Head of Technical Development Volkswagen AG, Wolfsburg (Germany)



Prof. Seong Jin Park Department of Mechanical Engineering Pohang University of Science and Technology, Pohang (Korea)

Chairmen and speakers



Michael Prince Chief Executive Officer (CEO) PRINCE-WEISS, Eupen (Belgium)



Prof. Byung-Ohk Rhee Department of Mechanical Engineering Ajou University, Suwon (Korea)



Malte Röbig, M.Sc. RWTH Head of Department Injection Moulding Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)



Lih-Sheng (Tom) Turng, Ph.D. Co-Director, Polymer Engineering Center University of Wisconsin-Madison, Madison (USA)



Dr.-Ing. Robert Vaculik Head of Plastics Strategic Business Unit Kistler Instrumente AG, Winterthur (Switzerland)



Dipl.-Ing. Jens van Haag Business Development Manager Germany Code Product Solutions B.V., Schinnen (The Nederlands)



A. Prof. Dr. Jian Wang Department of Chemical Engineering Beijing Institute of Technology, Beijing (China)



Yuxiao Zhang, M.Sc. RWTH Foam Injection Moulding Institute of Plastics Processing (IKV) at RWTH Aachen (Germany)

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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: Seffenter Weg 201, 52074 Aachen, Germany

Contact

Heinz Dersch, M.A., Phone: +49 241 80-93811 E-Mail:academy@ikv.rwth-aachen.de

Event venue

Hotel Pullman Aachen Quellenhof Monheimsallee 52, 52062 Aachen, Germany Telephone: +49 241 9132-0 Parking: There are several parking places in and arround the conference venue

Attendance fee

The attendance fee is EUR 1,235 for non-members of the IKV Sponsors' Association, and EUR 1,035 for members. The ticket entitles the holder to attend the conference programme, the get-together, the conference dinner and the technical centre tour. The attendance fee includes the conference documents, drinks, lunch and dinner (catering is subject to VAT).

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 sends additional conference programms on request. **The easiest way to register is online at www.iimc-aachen.com**

Room reservation

IKV recommends the conference hotel Pullman Aachen Quellenhof for accommodation. IKV placed a hold on a limited contingent of rooms in this hotel (key word: IIMC). This contingent is available until 28 February 2019. For any other hotel, please contact the Aachen Tourist Service e.V. www.aachen-tourist.de, Telephone: +49 241 18029-50, E-Mail: info@aachen-tourismus.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 a written form to IKV. If the cancellation is made by 27 March 2019, we will refund the full paid-up sum reduced by 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 whole attendance fee will be refunded. The Institute will not be responsible for other obligations over and beyond this.