

## PRESS RELEASE

### **IKV Symposium on reactive pultrusion** Approaches for a cost-efficient FRP-profile production

Aachen, in August 2018. The Institute of Plastics Processing (IKV) in Industry and the Skilled Crafts at RWTH Aachen University invites to the symposium on reactive pultrusion on 9 October 2018 to Aachen, Germany, where specialists from industry and research will present and discuss the latest developments. Dr. Hubert Ehbing from Covestro Germany will be the chairman of the symposium.

As a continuous process, the pultrusion offers great potential for a cost-efficient production of highly loadable profiles made of continuous fibre reinforced plastics. For a large-scale production, highly reactive resin materials are increasingly focused in current developments, e.g. polyurethanes, epoxy resins or insitu polymerising thermoplastics. Due to the low viscosity of the basic material, they offer excellent impregnation properties. Thus, high performance profiles with high fibre volume contents and excellent mechanical properties can be realised. At the same time, the profile production can be realised very cost-efficient at high production speed due to the high reactivity of the material systems.

However, the use of highly reactive systems results in new challenges for reactive pultrusion such as a process-oriented design and construction of the injection box instead of a conventional impregnation bath and necessary modifications of the die technology. Furthermore, the importance of a precise process management, process control and quality assurance increases in order to guarantee a robust and cost-efficient production.

Against this background, various applications and potentials for the pultrusion with reactive materials in high volumes will be demonstrated and discussed during this symposium. Researchers, material suppliers, processors and customers have the opportunity to inform themselves about new material developments, suitable machine equipment and die technologies as well as current research activities and discuss the presented solutions with technical experts.

The Speakers will come from Arkema Innovative Chemistry, BASF Polyurethanes, Carbon Truck & Trailer, Covestro, KraussMaffei Technologies, and Thomas Technik + Innovation. Subjects from research will be contributed by the University of Twente, Enschede, the Netherlands, and from IKV.

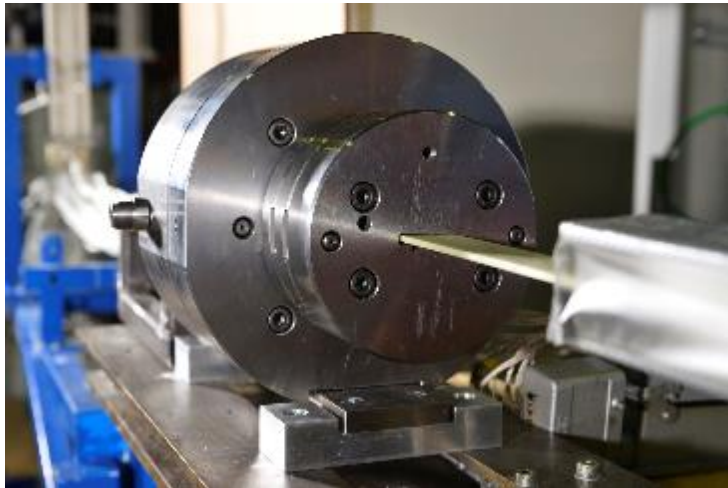
The symposium on Reactive Pultrusion addresses engineers and technical managers in the areas of development, production and sales of innovative reactive resin systems, process development and production planning as well as processing equipment for series production of lightweight profiles and the associated quality assurance.

The conference language is English.

**[www.ikv-aachen.de/en/events](http://www.ikv-aachen.de/en/events)**

### About IKV

IKV, the Institute of Plastics Processing at RWTH Aachen University, is Europe-wide the leading research and education institute engaged in the field of plastics processing enjoying outstanding reputation. More than 300 staff are employed in finding solutions to problems connected with processing, materials technology and part design in the plastics and rubber industries. IKV's close contacts 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. In organisational terms, IKV is divided up into the four specialist departments of Injection Moulding, Extrusion and Rubber Technology, Part Design and Materials Technology, and Composites and Polyurethane Technology. The institute also takes in the Centre for Analysis and Testing of Plastics, and the Training and Further Education department. IKV is run by an Association of Sponsors, which currently has a membership of about 290 plastics companies from all over the world. Univ.-Prof. Dr.-Ing. Christian Hopmann is Head of the Institute and Managing Director of the Association of Sponsors. He also holds the Chair of Plastics Processing at the Faculty of Mechanical Engineering at RWTH Aachen University.



Pultrusion plant in the IKV technology centre for composites (photo: IKV/Fröls)

**Photo in high resolution to find on our website together with the press release at**  
[www.ikv-aachen.de/en/news](http://www.ikv-aachen.de/en/news)

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