

**PRESS RELEASE**  
Aachen, August 25, 2022

Laboratory for Machine Tools and  
Production Engineering (WZL) of  
RWTH Aachen University

**Viktoria Ingelmann**  
Head of Press and Public Relations

## Aachen Conference on Machining

Campus-Boulevard 30  
52074 Aachen  
GERMANY

### Shaping The Future of Machining

Phone: +49 241 80-27554  
Fax: +49 241 80-22293  
v.ingelmann@wzl.rwth-aachen.de  
www.wzl.rwth-aachen.de

Machining is a key technology for the production of countless products and components, which is indispensable in many business areas from aerospace to tool and mold making to medical technology. However, many industries and production areas are currently in a state of upheaval: The transformation in the mobility sector, increasing demands for sustainability and resource efficiency, but also the trend towards digitalization are putting companies under pressure to react quickly and further develop their machining technologies in order to remain competitive. This is precisely where great opportunities lie: Process data or machine learning methods can be used to increase component quality and significantly reduce costly scrap. New machining concepts and cooling lubrication strategies allow efficient and resource-saving production of even safety-critical components.

From September 21-22, 2022, everything will revolve around the future of machining during the first Aachen Conference on Machining. The Laboratory for Machine Tools and Production Engineering (WZL) and the Fraunhofer Institute for Production Technology IPT are jointly organizing the event and inviting the expert audience to exchange experiences.

### Practical Lectures, Live Demonstrations and Meeting of Experts

The Aachen Conference on Machining (ACM) will present not only the latest scientific findings in established fields of development, but also new practical concepts for the design and control of machining production. Participants can expect application-oriented presentations in six sessions:

- Tool Development, Machine and Clamping Systems
- Cooling Lubrication Strategies
- Process Design and Simulation
- Monitoring and Control
- Digital Twin and Intelligent Manufacturing
- Sustainability

Live demonstrations and insights into current research activities will be provided during the comprehensive test bench tour at the Fraunhofer IPT and the WZL. The breaks and the joint evening event in the historic old town of Aachen invite to exchange and extensive networking. The program is rounded off by an industrial exhibition of leading companies from this field of technology and their user industries.

Registration for the conference is handled by the event partner [WZLforum](#).

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### **Contact:**

Dipl.-Ing. Daniel Schraknepper  
Phone: +49 241 80-28251  
[d.schraknepper@wzl.rwth-aachen.de](mailto:d.schraknepper@wzl.rwth-aachen.de)

Philipp Ganser M.Sc.  
Phone: +49 241 8904-425  
[philipp.ganser@ipt.fraunhofer.de](mailto:philipp.ganser@ipt.fraunhofer.de)

### **Laboratory for Machine Tools and Production Engineering (WZL)**

The Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University enhances the innovative strength and competitiveness of the industry with trend-setting basic research, applied research and the associated consulting and implementation projects in the field of production technology. In the research fields of manufacturing technology, machine tools, production engineering, gear technology as well as production metrology and quality management, practical solutions for rationalizing production are developed with industrial partners from a broad range of branches.

### **Fraunhofer Institute for Production Technology IPT**

The Fraunhofer Institute for Production Technology IPT combines many years of knowledge and experience from all areas of production technology. In the areas of process technology, production machinery, production quality and metrology as well as technology management, the Fraunhofer IPT offers its customers and project partners applied research and development for networked, adaptive production. The institute's range of services is geared to the individual tasks and challenges within specific industries, technologies and product areas, including automotive engineering and suppliers, energy, life sciences, aviation, mechanical and plant engineering, optics, precision and microtechnology, and tool and mold making.