

**PRESS RELEASE**  
Aachen, October 17, 2019

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

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## Digitalization and artificial intelligence in manufacturing technology

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### New basic seminars from the Chair of Manufacturing Technology

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In cooperation with the WZL Aachen GmbH, the Chair of Manufacturing Technology at WZL provides interested experts from industry with theoretical knowledge and practical knowledge in the fields of cutting technology, grinding technology, centerless grinding technology, forming technology, EDM and electrochemical machining as well as fine blanking within the framework of basic seminars.

New in the canon is the introductory seminar "Digitalization and artificial intelligence in manufacturing technology". Participants will receive an overview of the digitalization of manufacturing processes through appropriate sensor technology, the acquisition of information through artificial intelligence and machine learning as well as the potential of block chain and distributed ledger technology. Practical exercises and demonstrations are used to deepen what has been learnt through concrete application cases. The seminar provides tried and tested answers to the frequently asked questions: How does digitalization work in my company? How do I network new or existing machines? How do I use artificial intelligence and machine learning? What is block chain, 5G, or an IoT platform?

The basic seminars offer an introduction to various technologies and give an overview of the numerous processes and their basics. In order to facilitate the access to the topic, they are divided into different lectures, which are deepened by experimental demonstrations on test benches as well as practice-oriented case studies.

Target groups of the seminar series are users of the respective technologies, machine operators, supervisors as well as employees from production planning, manufacturing, service and sales. The speakers are members of the individual research groups at the WZL. In numerous industrial projects and working groups, they accompany companies in the process selection and optimization of existing processes.

#### Schedule of basic seminars 2020

- [April 1-2, 2020](#): basic seminar cutting technology
- [April 23, 2020](#): basic seminar digitalization and artificial intelligence in manufacturing technology
- [May 6-7, 2020](#): basic seminar grinding technology
- [May 27-28, 2020](#): advanced seminar centerless grinding technology
- [June 3-4, 2020](#): basic seminar forming technology
- [September 9-10, 2020](#): basic seminar grinding technology
- [October 15-16, 2020](#): basic seminar forming technology
- [October 22, 2020](#): basic seminar digitalization and artificial intelligence in manufacturing technology

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Further information can be found on [www.basisseminare.de](http://www.basisseminare.de).

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

The Laboratory for Machine Tools and Production Engineering (WZL) of RWTH Aachen University has stood worldwide for more than 100 years for future-oriented research and successful innovations in the field of production technology.

Under the leadership of four professors, Thomas Bergs, Christian Brecher, Robert Schmitt and Günther Schuh, the WZL is conducting research in six areas - production technology, machine tools, production systems, transmission technology, production metrology and quality management - on the future-oriented design of production in high-wage countries. Together with industry partners from various sectors, the WZL develops solutions for a wide variety of production scenarios in both publicly funded and bilateral projects. These activities are being consolidated on the RWTH Aachen Campus in the Cluster Production Engineering.

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### Attachments:



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