

Grinding Symposium 2019



LECTURES

International experts on
current technology topics

FUTURE LAB

Technologies for the
production of tomorrow
and beyond

TECHNOLOGIES

New solutions from the
Group in application



www.grinding-symposium.com

THE SYMPOSIUM IN NUMBERS

A record event: When the world of grinding and precision machining meets in Thun, not only will 2000 people meet from all over the world. Some other new records will also be set

4

languages
will be spoken at the Grinding Symposium. Lectures and technology presentations will be given in German, English, French or Italian or simultaneously translated into these languages

3

days during which everything will revolve around precision machining in Thun

1500

visitors from all over the world are expected to attend the fourth Grinding Symposium

300 m^2

is the area of the FutureLAB, where technologies of tomorrow and beyond will be presented for the first time at this Symposium

16

prominent experts from all over the world will speak in the lectures

26

performers
will be on stage during the two evening events in the Kursaal Bern

more than

400

technology presentations
in total will be held on the three Symposium stages at the different stations

130,9

tons is the total weight of all machines that will be presented at the Symposium. These include at least one world innovation



Stephan Nell,
CEO, UNITED GRINDING Group

DEAR READERS!

Networked production, machine learning in the production process, intelligent workpieces: What exactly do all the current buzzwords mean? And above all, how suitable are they for everyday application? This is what we want to discuss at the 4th Grinding Symposium in Thun, to which you are **cordially invited**.

In **lectures** internationally renowned experts will explain topics from the grinding machine sector and the manufacturing industry. In **technology presentations** experts from the brands of the UNITED GRINDING Group will present the companies' latest hardware and software solutions. And in the new **FutureLAB** we will present innovative technologies of tomorrow.

"United for your Success": This is the motto of the Symposium – because, as with all the Group's actions, once again the benefit for our customers is our benchmark.

So come and be inspired. I look forward to welcoming you in Thun in May 2019.

Stephan Nell
CEO, UNITED GRINDING Group

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You can find all the latest developments
relating to the Grinding Symposium 2019 at:
www.grinding-symposium.com



Technical innovations and trends



INNOVATION AND INSPIRATION

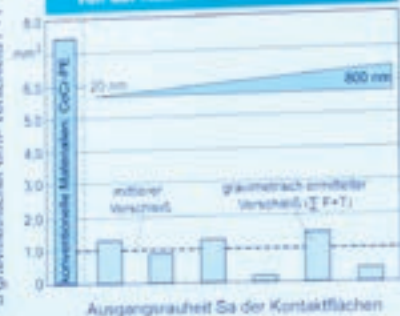
Experiencing new technologies and
meeting experts from all over the world:
This is what makes the
Grinding Symposium so exciting



Networking with experts
in precision machining



in der Zusammenfassung vom Versuchsaufbau: 4.4.7



gravimetrisch
ermittelter
Verschleiß im
Roll-Gleit-Versuch



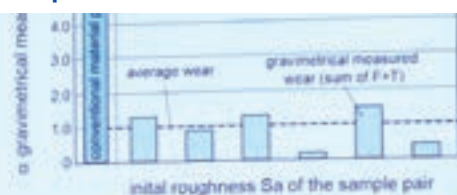
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1999

Flat

**Inspiring lectures by scientists
and practitioners from all over the world**



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WILHELM | BLUM | JUNG | STUBER | SCHALOT | MIKROSA | WA

GRINDING SYMPOSIUM

Unforgettable evening events

Exchanges with international colleagues

THE FUTURE OF PRODUCTION

How is digitalization changing machine manufacturing?
And which innovations are there in grinding technology?
Lectures on these issues will invite
discussion at the Grinding Symposium

Do humans still operate machines or have machines long controlled us, without us noticing? And how is digitalization changing the interface between human and machine? Dr. David Bosshart from Gottlieb Duttweiler Institute for Economic and Social Studies will kick off the range of specialist colloquia with a lecture on this topic and draw a big picture of the modern working world.

Lectures are traditionally an integral part of the Grinding Symposium. Many renowned social, economic, digitalization and machine manufacturing experts have already spoken here. The Symposium participants can expect to hear top-level speakers once again this year.

SENSORS IN THE PRODUCTION PROCESS

The lectures, divided into four specialist colloquia, will deal with general production topics and with specific aspects of the various grinding technologies. Claus Ahrens from Bosch Connected Devices and Solutions, for instance, will talk about the use of MEM sensors. MEM are Micro Electrical Mechanical Sensors, which process both mechanical and electronic impulses. The best-known ap-

SPECIALIST COLLOQUIA

■ "Intelligent production"

Wed. 9.5.2019,
14:00 – 17:00,
Chair: Erich Schmid,
Director Strategic Projects
UNITED GRINDING Group

■ "Cylindrical grinding"

Thurs. 9.5.2019,
9:30 – 12:30,
Chair: Dr. Frank Fiebelkorn,
Head of Research and
Technology STUDER

■ "Surface and profile grinding"

Thurs. 9.05.2019,
14:00 – 17:00, Chair:
Daniel Mavro, Managing
Director MÄGERLE

■ "Tool machining"

Fr., 10.5.2019,
9:30 – 12:30, Chair:
Harri Rein, Director of
Technology WALTER

*All colloquia will take place
in the Thun Expo Auditorium
(riding arena)*

plication is the detection of a vertical or horizontal condition, as when a smartphone is rotated. Which advantages these sensors have in production processes will be explained by Ahrens at the Symposium in Thun.

"The factory of the future will be far more flexible", predicts Dr. Sebastian Risi, who deals with artificial intelligence (AI) at the IT University of Copenhagen. "And humans will be integrated in entirely new combinations: Human – machine, human – robot, machine – robot." At the Symposium Risi will talk about AI in the manufacturing industry.

Eckhard Hohwieler from Fraunhofer IPK Berlin will devote himself to a related area of artificial intelligence: Machine learning in production. Prof. Konrad Wegener from ETH Zürich will deal specifically with grinding machine technology and ask which visions and developments are conceivable for these applications.

You can expect these and other lectures at the 4th Grinding Symposium. The detailed lecture program will be available from the end of 2018 at www.grinding-symposium.com

Dr. David Bosshart
from Gottlieb Duttweiler
Institute for Social and
Economic Studies will
speak on the topic
"Future: Human and
machine"



Dr. Sebastian Risi
from the IT University of
Copenhagen will deal with
artificial intelligence in
production



Eckhard Hohwieler
from Fraunhofer IPK Berlin
will talk about "Machine
learning in the manu-
facturing industry"



Prof. Konrad Wegener
from ETH Zürich will
present "Visions and
developments in grinding
machine technology"





**TECHNOLOGY
PRESENTATIONS**

- Daily from 9.30–12.00 and 14.00–17.00
- 30-minute presentations
- Alternating between German, French, Italian, English

New machines and software solutions will be presented in theory and on the machine during the technology presentations

FUTURE LAB

- Four thematic areas
- On 300 square meters