



# Programme GrindTec- FORUM

## Tagungscenter

### Wednesday, 14th March 2018

- 12:00 Uhr** **The end of expensive disposal – economic treatment of grinding sludge**  
Dipl.-Ing. Tobias Lanner, Lanner Anlagenbau GmbH
- 12:30 Uhr** **Laser engraving for tool grinder**  
Christoph Kollbach, Marcus Seineke, SK Laser GmbH
- 13:00 Uhr** **partner4JU: Industry 4.0 based on the JUSTAR Machine concept**  
Dipl.-Ing. (FH) Johannes Schätzle, B. Eng. Waldemar Görtz, Erwin Junker Maschinenfabrik GmbH
- 13:30 Uhr** **Coolant supply concepts for grinding processes**  
M. Eng. Roman Stabauer, Institut für Werkzeug- und Fertigungstechnik (IWFT) der Rheinischen Fachhochschule Köln
- 14:00 Uhr** **Development in gear grinding – maximum performance, but not at any prices**  
Dr. Stefan Bohr, Saint-Gobain Abrasives GmbH
- 14:30 Uhr** **Finishing of additively manufactured workpieces**  
Dipl.-Ing. Simon Roßkamp, Institut für Werkzeugmaschinen und Fabrikbetrieb (IWF) der Technischen Universität Berlin

### 2. Deutsch-Chinesischer Workshop GrindTec 2018

- 15:30 Uhr** **Welcoming**  
Henning Könicke, Managing Director AFAG  
Uwe Schmidt, Vice President FDPW
- 15:35 Uhr** **Greetings**  
Feng Chen, Head of the delegation  
Yin Jun, Minister Counselor for Science and technology of the Chinese Embassy
- 15:40 Uhr** **Round table conversation**  
Prof. Dr.-Ing. Saxler, Managing Director FDPW  
Joachim Kalsdorf, Project manager AFAG  
Hanan Wang, Representative China AFAG
- 15:55 Uhr** **Presentation of the grinding technology trade fairs in China**  
Jianrong Ding, Geschäftsführer SINOMACH
- 16:10 Uhr** **Short presentation of novelties and innovations of Chinese exhibitors**  
**chinesischer Aussteller**  
ZHENGZHOU HONGJI ABRASIVE TECH CO.,LTD  
Henan HengXin Industrial & Mineral Products Co., Ltd  
ZHENGZHOU JIELIDA ABRASIVE PRODUCTS CO.,LTD  
Changsha Hengfeng Superhard Materials Co., Ltd.  
Chenguang Machinery & Electric Equipment Co., Ltd.  
Xuchang Great Abrasive Co., Ltd.  
Changsha Naiqiang Superabrasives Co.,Ltd  
JiangSu WeiZe Filter Technology Co.,Ltd
- 17:30 Uhr** **Discussion group**  
following  
Get together

### Thursday, 15th March 2018

- 09:30 Uhr** **A cost-effective alternative to external disposal, evaporators and ultrafiltration**  
Dr. Rainer Siegmeier, akvola Technologies GmbH
- 10:00 Uhr** **The production of symmetrical and asymmetrical cutting edge radii with the diamond brushing technology and defined deburring and polishing of fine machined parts**  
Marc Schori, René Gerber AG,
- 10:30 Uhr** **New machine concept for high precision machining**  
M. Sc. Mark Stocker, Fives Landies Ltd.

### Grinding Technology 4.0 - Excellence in Digital Grinding

- 11:00 Uhr** **Cutting tool technology 4.0 - Potentials of digitization**  
Prof. Dr.-Ing. Wilfried Saxler, German Trade Association for Precision Tool Grinders FDPW
- 11:30 Uhr** **Tool Case 4.0 - One robot, an infinite number of applications**  
Christian Fenk, Universal Robots (Germany) GmbH
- 12:00 Uhr** **Grinding Technology 4.0 from Trossingen**  
Ruben Fischer, Haas Schleifmaschinen GmbH
- 12:30 Uhr** **The Swing Step Dressing Technology - The gentle dressing**  
Ronny Könnemann, KW Abrichtec GmbH
- 13:00 Uhr** **Analysis of the tribological conditions in grinding of polycrystalline diamond based on single-grain friction tests using the pin-disk principle**  
M. Sc. Frederik Vits, Werkzeugmaschinenlabor WZL der RWTH Aachen University
- 13:30 Uhr** **Grinding process Optimization using the assistance system ToolScope**  
Dr.-Ing. Markus Weiß, Tyrolit Schleifmittelwerke Swarovski KG
- 14:00 Uhr** **Temperature measurement in orthogonal cutting through pyrometric and thermographic measuring techniques**  
B. Eng. Julian Steden, Institut für Werkzeug- und Fertigungstechnik (IWFT) der Rheinischen Fachhochschule Köln
- 14:30 Uhr** **Grinding of precision flat surfaces: Many solutions, but which is the most efficient?**  
Achim Fehrenbacher, Supfina Grieshaber GmbH & Co. KG
- 15:00 Uhr** **Wear mechanisms of ceramic mass finishing media**  
M. Sc. Alexander Eulitz, Institut für Werkzeugmaschinen und Fabrikbetrieb (IWF) der Technischen Universität Berlin
- 15:30 Uhr** **Productivity boost in the production of superhard tools**  
Dr. Stephan Scholze, Agathon AG

- 16:00 Uhr** **Multi-scale consideration of the material separation mechanisms during grinding of unreinforced thermoplastic materials**  
Karolin Kamplade, Institut für Spanende Fertigung der Technischen Universität Dortmund
- 16:30 Uhr** **Productive Grinding of PCBN- and PCD-inserts**  
Dr.-Ing. Leif Behrens, BDW-BINKA Diamantwerkzeug GmbH

### Friday, 16th March 2018

- 09:30 Uhr** **Cutting Tools After the Combustion Engine: HIPIMS! Diamond!**  
Dr.-Ing. Christoph Schiffers, CemeCon AG
- 10:00 Uhr** **Increased tool life as a driver of economic efficiency – reproducible edge preparation for punching and cutting tools using the diamond brushing process**  
Marc Schori, René Gerber AG
- 10:30 Uhr** **Grinding replaces machining**  
Dr. Stefan Bohr, Saint-Gobain Abrasives GmbH
- 11:00 Uhr** **Influence of the grinding wheel edge in flute grinding**  
Arunan Muthulingam, Institut für Werkzeugmaschinen und Fabrikbetrieb (IWF) der Technischen Universität Berlin
- 11:30 Uhr** **CNC grinding machines with robot controlled feeding systems in digital production**  
Dr. Andreas Groß, Heinz Berger Maschinenfabrik GmbH & Co. KG
- 12:00 Uhr** **Automatic Monitoring Strategies For The Grinding Process. Case Studies And New Developments**  
Andreas Wilhelm, SBS - Schmitt Industries, Inc.
- 12:30 Uhr** **3D printing of industrial metal parts**  
Ralph Mayer, Renishaw GmbH
- 13:00 Uhr** **Test methods for cutting tools - research activities, current developments and services**  
M. Eng. Marius Nahler, Institut für Werkzeug- und Fertigungstechnik (IWFT) der Rheinischen Fachhochschule Köln
- 13:30 Uhr** **DIAMOND SURFACE BURNISHING-The economical alternative for polishing turned parts**  
Peter Feuchter, Mössner GmbH
- 14:00 Uhr** **Nondestructive Testing via Barkhausen Noise Analysis and verification via x-ray diffraction**  
Rico Dobrenko, Stresstech GmbH
- 14:30 Uhr** **CBNI - Digitisation of the grinding process with intelligent grinding tools**  
Dr. Tim Götttsching, Hermes Schleifmittel GmbH
- 15:00 Uhr** **Long-term preservation of cooling lubricants using encapsulated biocides through an automated maintenance module**  
Steffen Gorzawski, Filtration Group GmbH
- 15:30 Uhr** **New innovative carbide grades for metal cutting**  
Reinhard Löffler, Günter Schmid, Golden Egret Carbide Germany GmbH
- 16:00 Uhr** **Reducing of vibrations on machine tools and base plates by the use of high damping machine beds and machine parts**  
Dipl.-Ing. Sascha Döhler, Framag Industrieanlagenbau GmbH
- 16:30 Uhr** **Wear detection directly on the grinding wheel**  
B. Eng. Markus Preuß, Pro-micron GmbH & Co. KG
- 17:00 Uhr** **Precision machining of ultra-hard cutting materials with laser technology**  
Dipl.-Wirtschaftsingen. (FH) Markus Bäuml, Sauer GmbH

### Saturday, 17nd March 2018

- 09:30 Uhr** **BDD Material - Good Combination of Diamond & CBN**  
Ben Yang, ZZDM Superabrasives Co., Ltd.
- 10:00 Uhr** **Innovative Use of Diamond Tools for Submicron Precision Dressing of Conventional Grinding Wheels**  
Peter Feuchter, Mössner GmbH
- 10:30 Uhr** **Fully automatic measurement, sharpening and management of circular saw blades**  
Michael Kohnle, iBlade GmbH & Co. KG
- 11:00 Uhr** **Potentialities, challenges and latest achievements in selective laser sintering of solid carbide cutting tools**  
Dipl.-Ing. Tobias Schwaneckamp, Institut für Werkzeug- und Fertigungstechnik (IWFT) der Rheinischen Fachhochschule Köln
- 11:30 Uhr** **Think Laser! in tool manufacturing**  
Dr. Claus Dold, EWAG AG
- 12:00 Uhr** **Development of a preparation process for cutting edges and post-treatment of coated cemented carbide micro-milling tools using elastically bonded abrasive tool bodies**  
M. Sc. Alexander Ott, Institut für Spanende Fertigung, Technische Universität Dortmund
- 12:30 Uhr** **GTL- the oil of the future**  
Andreas Markiefka, Houghton Deutschland GmbH
- 13:00 Uhr** **Real-Time-Analyser made by AKE – visible measuring**  
David Brodmann, AKE Knebel GmbH & Co. KG
- 13:30 Uhr** **LCIA (Low Cost Intelligent Automation) for Grinding Machines**  
Dipl.-Ing. Hubert Jäger, Jäger Engineering GmbH
- 14:00 Uhr** **Retrofitting with magnetic band filtration of an existing central system**  
Nils-Holger Seestädt, BELKI Filtertechnik GmbH
- 14:30 Uhr** **CUMI Ceramic Grains: Grinding Solutions for the Future**  
K Abhijit, Carborundum Universal Limited (CUMI) - Electro Minerals Division
- 15:00 Uhr** **Presentation of JYS (China)**  
Laura Faye, JYS (China)