

DKV-Statusbericht Nr. 36

2. Innovation Day of Compressor Technology „Bearings – Stress with the Load“

TU Dresden
BITZER Professur für Kälte-, Kryo- und
Kompressorentechnik

2019

978-3-932715-99-0



Content: Presentations of the 2nd Innovation Day of Compressor Technology “Bearings – Stress with the Load”

1. „Introduction of Bearing Technology“,
Prof. Dr.-Ing. Berthold Schlecht, TU Dresden
2. „Tribology Examinations“
Patrick Markus, Bruker Nano Surfaces
3. „Simulation of Bearings“
Dr. Björn Juretzki, IME Aachen GmbH
4. „Plastic Plain Bearings --> Application Limits and Possibilities“
Stefan Loockmann-Rittich, igus GmbH
5. „Lubricants for Bearings“
Prof. Christian Busch, WHZ Zwickau
6. „Surface Tension of Lubricants“
Ramona Nosbers, BITZER Professur der TU Dresden
7. „Lubrication of Bearings with Low-viscosity Fluids“
Thomas Mösch, TU Dresden
8. „Opportunities and limitations of gas lubricated bearings for turbocompressors“
Prof. Jürg Schiffmann, EPFL, Schweiz
9. „Stabilization of High-speed Rotors with Magnetic Bearings“
Markus Hutterer, TU Wien
10. „Hybrid and Ceramic Rolling Bearing Technology“
Christian Klatt, CEROBear GmbH