Revolutionary ideas in the field of compressors considering

- mobile application,
- refrigeration technology,
- process gas industry and
- turbo compressor application

have been developed and investigated in the recent past.

The focus of the 2nd Innovation Day of Compressor Technology is on the bearings of different types of compressors. Small scale compressors for household applications, industrial cooling, and transport cooling as well as for process gas are considered. Presentations on specific challenges, tribology aspects and guidelines will be given by experts of the respective field of research.

The number of participants is limited due to the premises. Registrations will be considered with respect to the date of their receipt.

The participation in the 2nd Innovation Day of Compressor Technology is free of charge.

For your participation please use the form under the link until September 23rd, 2019:

**2nd Innovation Day of Compressor Technology**

For any further information please contact:

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[https://tu-dresden.de/ing/maschinenwesen/iet/kkt](https://tu-dresden.de/ing/maschinenwesen/iet/kkt)
Thursday, October 10th, 2019

Beginning: 6:30 pm
Welcome Reception with Lab tour at the Bitzer Chair of Refrigeration, Cryogenics and Compressor Technology
Welcome: Prof. Dr.-Ing. Ullrich Hesse
Location: Evening event: TU Dresden, Alte Mensa, Westsaal. Use the entry from Helmholtzstraße.

Friday, October 11th, 2019
9:00 am Reception Desk
9:20 am Welcome Prof. Dr.-Ing. Ullrich Hesse, Bitzer Chair of Refrigeration, Cryogenics and Compressor Technology, TU Dresden
Location: TU Dresden, Dülfer-Saal/Alte Mensa. Use the entry from Dülferstraße

Part 1: Bearings
9:30 am Introduction of Bearing Technology Prof. Dr.-Ing. Berthold Schlecht, TU Dresden
10:05 am Tribology Examinations Dr. Christian Beck, Fa. Bruker
10:40 am Simulation of Bearings Dr. Björn Juretzki, IME Aachen GmbH
11:15 am Plastic Plain Bearings --> Application Limits and Possibilities Stefan Loockmann-Rittich, Igsus
11:50 – 12:50 pm Lunch Break

Part 2: Lubricants
12:50 pm Lubricants for Bearings Prof. Christian Busch, WHZ Zwickau
1:25 pm Surface Tension of Lubricants Ramona Nosbers, TU Dresden
2:00 pm Lubrication of Bearings with Low-viscosity Fluids Thomas Mösch, TU Dresden
02:35 – 02:55 pm Coffee Break

Part 3: Special Applications
2:55 pm Opportunities and limitation of gas lubricated bearings for turbocompressors Prof. Jürg Schiffmann, EPFL, Schweiz
3:30 pm Stabilization of High-speed Rotors with Magnetic Bearings Markus Hutterer, TU Wien
4:05 pm Hybrid and Ceramic Rolling Bearing Technology Johannes Mohr, CEROBEAR GmbH
4:40 pm WRAP-UP Prof. Dr.-Ing. Ullrich Hesse, TU Dresden