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- 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 23th, 2019:

2nd Innovation Day of Compressor Technology



Dülferstraße, 01069 Dresden

For any further information please contact:

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https://tu-dresden.de/ing/maschinenwesen/iet/kkt

2nd Innovation Day of

Compressor Technology

Bearings – Stress with the Load

October 11th, 2019 Dülfer-Saal Technische Universität Dresden

Dülferstraße, 01069 Dresden

























Thursday, October 10th, 2019

Beginning: 6:30 pm

Welcome Reception with Lab tour at the Bitzer Chair of Refrigeration, Cryogenics and Compressor Technology

Welcome:

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Prof. Dr.-Ing. Ullrich Hesse

Location: Evening event: TU Dresden, Alte Mensa, Westsaal. Use the entry from Helmholtzstraße.

Friday, October 11th, 2019

am	neception besk
9:20 am	Welcome Prof. DrIng. Ullrich Hesse, Bitzer Chair of Refrigeration, Cryogenics and Compressor Technology, TU Dresden

Recention Deck

Location: TU Dresden, Dülfer-Saal/Alte Mensa. Use the entry from Dülferstraße



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

Part 2: Lubricants

12:50	Lubricants for Bearings
pm	Prof. Christian Busch, WHZ Zwickau
1:25	Surface Tension of Lubricants
pm	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 limitations 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. DrIng. Ullrich Hesse, TU Dresden