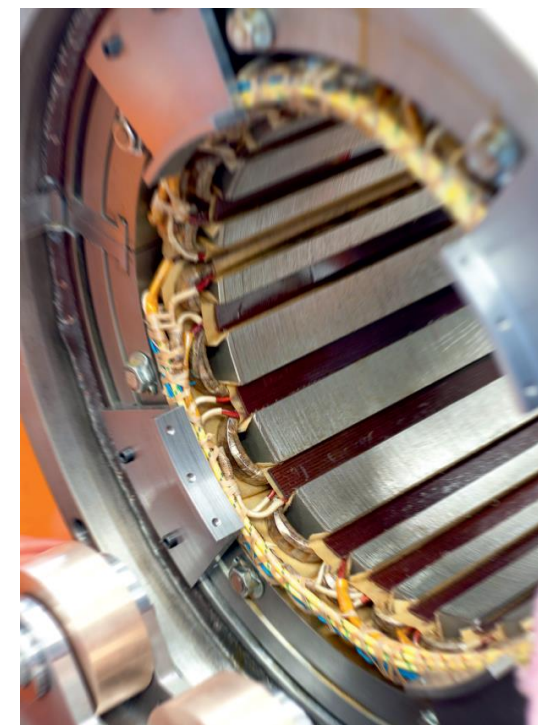


12th WORKSHOP ON MAGNETIC BEARINGS ZITTAU-CHEMNITZ



2nd – 3rd September 2019



Program Committee

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Conference fee

The conference fee amounts to 135,- €. A buffet, drinks, the evening event and conference documents are included. The conference fee has to be paid until 2nd Aug 2019 to the bank account below.

Bank Account

Please pay the conference fee under specification of the intended use

Payee:	Hauptkasse des Freistaates Sachsen
Financial Institution:	Deutsche Bundesbank
IBAN:	DE06 8600 0000 0086 0015 19
BIC:	MARK DEF1 860
Intended Use:	

1. 07040 / 00603-0
2. 71006002 + name of the participant

The conference fee is VAT-exempt according German law
UStG § 4 Nr. 22 letter a.

12th Workshop on Magnetic Bearings Zittau-Chemnitz

Hochschule Zittau/Görlitz
IPM

POB 1455
02754 Zittau
Germany

Preamble

Active magnetic bearings are used where conventional plain or roller bearings reach their technical limits. The main reason for that are the functional properties and the resulting advantages of this type of bearing. Magnetic bearings were initially used as special or niche solutions. Due to continuous further development of magnetic bearing technology and the availability of increasing powerful control and power electronic components and sensors they have now reached product status in numerous applications. Magnetic bearings consequently represent an energy-efficient, resource-saving, reliable and secure alternative to conventional bearings.

The design and development process of magnetic bearings for turbo machinery is interdisciplinary and cross domain. Knowledge of machine dynamics, mechanical engineering, electrical engineering and electronics as well as control engineering is necessary for the successful implementation of the bearing concept. In addition, new requirements arise from current developments, such as the transformation of the electrical energy supply from centralized large-scale power plants with fossil fuels to decentralized plants using renewable resources or the digitization and networking of industrial production – e. g. Industry 4.0. This also results in new approaches and solutions for the use of magnetic bearings.

The aim of the workshop is to present the recent research results in the field of magnetic bearings. The current state and development trends in the range of catcher bearings will also be presented. Other topics are the requirements and possibilities of magnetic bearing applications with regard to economic and industrial transformation in view of bundling resources between developers and manufacturers and utilise this for future developments. In this sense, the workshop offers a platform for networking developers, manufacturers and users.

Topics

- Design and optimization of active magnetic bearings
- Catcher bearings
- Position measurement and control systems, actuators
- Modelling and simulation
- Diagnosis and reliability, intelligent algorithms
- Industrial and series applications

Exhibition/Presentation

Posters, test equipment, hardware or software can be exhibited or presented during the workshop. Interested parties are invited to contact the organizers.

Important Dates

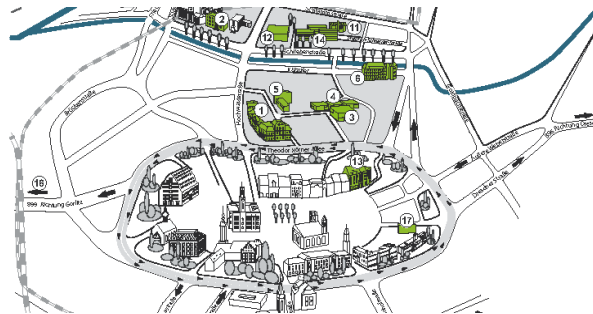
Registration and abstract submission	28. June 2019
Declaration of acceptance	12. July 2019
Invitation	21. July 2019
Deadline for manuscript transmission	2. Aug 2019
Workshop	2.-3. Sept 2019

Organizer

Zittau/Görlitz University of Applied Sciences
IPM - Institute of Process Technology, Process Automation and Measuring Technology

Conference Venue

Zittau/Görlitz University of Applied Sciences
Campus Zittau – Building Z IV ③
„Peter-Dierich-Haus“ - Theodor-Körner-Allee 8



Conference Language

The conference languages are German and English.

Submission of Abstracts

Authors are requested to submit the abstract (max. one page) in German or English as DOC or PDF file by e-mail to the following address:

ipm@hszg.de

Registration¹

✂ Registration by using this form, by e-mail or QR-code

Last name:

First name:

Acad. titel:

Institution:

Address:

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Country:

Phone:

Fax:

e-mail:

I will attend the workshop

☐ without any paper

☐ with the following paper:

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☐ with an exhibit



✂

¹ The processing of personal data takes place in accordance with the data protection declaration of the University of Applied Sciences Zittau/Görlitz www.hszg.de