

February seminars USA 2018



Bearings

\checkmark	02/05	Development of bearing suppliers and quality control
		during purchasing

√ 02/06 Basics of bearing technology

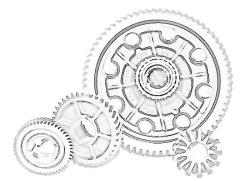
02/07 Bearing failures: Investigation and analysis of practical examples

Gearboxes

✓	02/08	Preventive maintenance and condition monitoring of
		industrial gearboxes

 ✓ 02/09 Supplier development for large industrial gearboxes and quality control during purchasing

✓ 02/10 Basics of machine acoustics – reduction of noise by design measures



Bearing seminars



Development of bearing suppliers and quality control during purchasing

• 5th of February 2018, 10:00 a.m. – 05:00 p.m.

Global sourcing of bearings opens plenty of opportunities for optimization of supply chains. However, any new supplier approval goes along with a certain quality risk.

Therefore, this seminar is focused on the following subjects:

- 1. Definition of quality requirements, technical specifications
- 2. Approach during supplier visits and audits
- 3. Requirements related to documentation of production
- 4. Methods for incoming inspection
- 5. Concepts for quality control

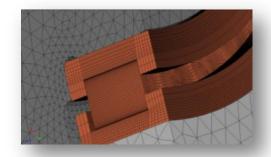


Basics of bearing technology

• 6th of February 2018, 10:00 a.m. - 05:00 p.m.

This one day seminar provides basic knowledge especially for design of bearing arrangements and for quality assurance during purchasing. Lectures shall focus especially on:

- 1. Types, Properties, Concepts
- 2. Basics of Tribology
- 3. Raceway crowning
- 4. Material properties
- 5. Sample assessment



Bearing failures: Investigation and analysis of practical examples

• 7th of February 2018, 10:00 a.m. – 05:00 p.m.

Identification and understanding of failure root causes is necessary in order to initiate the required counter measures. Therefore, this seminar shall show based on practical examples how damage characteristics can be identified and to which conclusion they lead. Main topics are especially:

- 1. Methods for damage investigation
- 2. Damage mechanisms
- 3. Quality characteristics of bearings
- 4. Examples from numerous applications





Gearbox seminars



Preventive maintenance and condition monitoring of industrial gearboxes

• 8th of February 2018, 10:00 a.m. - 05:00 p.m.

In many technical systems, breakdowns of particular components lead to enormous subsequent costs as production will be affected significantly. Detection of damages at early stages can lead to minimization of downtime and helps to avoid secondary damages by which overall breakdown costs can be highly reduced.

Therefore, this seminar refers to the following topics:

- 1. Investigation of lubricants
- 2. Regular inspection and endoscopy
- 3. Vibration measurement and analysis of obtained results
- 4. Automation of shutdown in case of detected defect



Supplier development for large industrial gearboxes and quality control during purchasing

• 9th of February 2018, 10:00 a.m. – 05:00 p.m.

Large industrial gearboxes are typically produced in small series while frequently, individual solutions are requested which require close collaboration between supplier and customer. Here, especially clear communication of requirements, verification of technical concepts and of course the general assessment of production processes are essential.

Accordingly, the topics of this seminar are:

- 1. Structure and content of technical specifications
- 2. Verification of technical documents such as drawings, stress and lifetime calculations of shafts, gearings, bearings and housings
- 3. Approach during supplier visits and audits
- 4. Requirements related to documentation of production
- 5. Methods for incoming and production related inspection



Basics of machine acoustics - reduction of noise by design measures

• 10th of February 2018, 10:00 a.m. – 05:00 p.m.

Avoidance of noise emission belongs to the important requirements of technical systems while noise protection covers frequently are expensive and go along with other disadvantages. In this context, it can be much more efficient to prevent noise emission by proper design measures instead of capsuling noisy machines. Such measures refer especially to design of housings for which reason the following subjects will be discussed during this seminar:

- 1. Basics of machine acoustics
- 2. Excitation forces
- 3. Structure born noise
- 4. Noise radiation







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I hereby register for the following seminars: Please fill in the first column of the table below)

Enroll yes/no	Date/Time	Title	Price	Location	Lang.
	02/05 10:00 a.m.	Development of bearing suppliers and quality control during purchasing	590,00 \$	Valparaiso Indiana	English
	02/06 10:00 a.m.	Basics of bearing technology	590,00 \$	Valparaiso Indiana	English
	02/07 10:00 a.m.	Bearing failures: Investigation and analysis of pract. Examples	590,00 \$	Valparaiso Indiana	English
	02/08 10:00 a.m.	Preventive maintenance & condition monitoring of industrial gearboxes	590,00 \$	Valparaiso Indiana	English
	02/09 10:00 a.m.	Supplier development for large industrial gearboxes & quality control during purchasing	590,00 \$	Valparaiso Indiana	English
	02/10 10:00 a.m.	Basics of machine acoustics - reduction of noise by design measures	590,00 \$	Valparaiso Indiana	English

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Please fill in your contact and invoice data in the table below.

After registration, you will receive our invoice which is due one week prior to the seminar. In case of further questions, please feel free to contact us by phone or e-mail.

Name of participant	
Company	
Address	
Optional billing address	
Optional PO No.	
Phone and e-mail	
Signature	