

TWO SUCCESSFUL FIRST EDITIONS!

The Bearing Reliability Conference & Expo & BEARING WORLD IN GERMANY





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SUCCESSFUL PREMIERE FOR BEARING WORLD



The drive technology industry cannot move toward the future without (rolling) bearings. The 200 domestic and international participants from science and industry who were able to attend the premiere of the only international scientific conference dedicated to bearings were able to experience this first hand. The core topics of reliability and efficiency were the focus of the event, which was organized by FVA (the German research association for drive technology, Forschungsvereinigung Antriebstechnik e. V.) and Professor Gerhard Poll of Leibniz Universität, Hannover.



FVA hosted BEARING WORLD, the first ever international conference dedicated to bearings, which took place April 12 and 13 in Hanover under the motto "Industrial Research and Science in Dialogue with Practical Application." The expert conference was well received by the more than 200 participants from 11 countries. With the international conference, FVA charted new territory in two ways.

First, FVA expanded its conference offerings to include an additional topic: bearings. Secondly, with BEARING WORLD, FVA has presented itself to an international stage.

Thus far, FVA has been successful on a national level with conferences dedicated to gear production (GETPRO), lubrication (GETLUB), simulation (SIMPEP), and electromobility (E-MOTIVE).

INTERNATIONAL COOPERATION IN RESEARCH AND DEVELOPMENT IS ESSENTIAL

International Cooperation in Research and Development is Essential FVA's internationalisation follows the logic of the market and, consequently, the needs of researchers and developers in industry and science. With regard to the international rolling bearing market, Dr. Arbogast Grünau, Head of Corporate R&D Competence and Services, Schaeffler AG and Chairman of the FVA Management Board, stated: "A global market means that we should also think globally. This is an invitation for international collaboration in research and development. This applies to companies as well as scientific institutions. BEARING WORLD is our response to this requirement."



Digitisation also plays an important role for rolling bearings, which affects all business areas. Regarding the challenges in rolling bearing development, Rainer Eidloth, Senior Vice President Bearings-Components Development at Schaeffler

AG, stated: "In the digital world, for example within the context of Industry 4.0, connected information and data is a key foundation. As a core component, bearings are predestined to gather and communicate relevant drivetrain parameters.

The challenge is now to connect rolling bearings and sensors in such a way that the data is useful for OEM's and customers in a standard format."

High-Quality Presentations from International Experts

The conference offered a comprehensive overview of the current state of technology, research, and development in the field of rolling bearings. Rolling bearings were the focus of this year's conference, but other bearing concepts will also be included in the future.

The conference featured keynotes from high-profile experts, who provided insight into future challenges for bearing manufacturers. Innovative concepts, white etching cracks (WEC), tribology and efficiency, and damage diagnosis and avoidance were the main topics of the event.

Around a quarter of the 28 presentations of current research, findings from scientific research institutions and company research departments were contributed by experts from abroad. All presentations and discussions were simultaneously translated into German and English.



Research Needed to Meet Major Challenges for the Bearings of the Future

In his keynote, Bernd Stephan, Senior Vice President of Group Technology Development, SKF Group, addressed the question of whether bearings constitute **standard goods or high-technology products**: "Rolling bearings are very complex machine elements. Rolling contact as an essential function of rolling bearings has not yet been fully researched.

There is also great progress to be made in the tribological system between rolling bearings and lubricants. New materials such as special steels and ceramic rolling bodies open completely new dimensions. In this context, we are certainly dealing with a high-tech product."

On the importance of rolling bearings in the drivetrains of the future,

Dr. Tobias Lösche-ter Horst, General Manager of Powertrain Research, Volkswagen AG, said:

"The drivetrains in future automotive applications will continue to make very specific demands of rolling bearings, for example in terms of dynamics, temperature behaviour, and space. Rolling bearings will continue to be central machine elements



Positive Conclusion

Bernhard Hagemann, acting managing director of FVA, was very satisfied with the premiere of Bearing World: "It is very important for the FVA research community and for users in the industry to network internationally and to receive ideas from around the world.

The high number of participants at our premiere is proof of the great interest in the international format and the contents of the event. We are extremely satisfied with the start and will continue on the path of internationalisation.

We are looking forward to the next BEARING WORLD, here in Germany or abroad."

BEARING WORLD

You can contact Mr. Bernard Rensinghoff by phone: 069 / 6603-1864 or e-mail: bernard.rensinghoff@vdma.org for all future updates concerning BEARING WORLD or check on the websites www.fva-net.de – www.bearingworld.org

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**First Edition of
'The Bearing Reliability
Conference & Expo'
held in Dortmund**

The first edition of the Bearing Reliability Conference & Expo is held on 22 – 23 March in Dortmund with over 120 participants from 11 different countries, where the industry players found the chance to come together during a two days' knowledge & networking event.

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After the mega successful first edition of BRCE2016, the decision is made quickly to continue with this great concept and to run BRCE2017 in the Westfalenhallen Dortmund in Autumn 2017.



Don't miss the chance and
send an email to
info@bearing-news.com

if you would like us to keep you up-to-date about the
second edition of the Bearing Reliability Conference & Expo 2017.
Look forward to see you in 2017!

Download the Speaker presentations @ the Bearing Reliability Conference & Expo 2016 from the links below:

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BearingNEWS:

www.bearing-news.com/download-presentations-bearing-reliability-conference-expo-2016



ReliabilityLINK:

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WORKSHOP:

This workshop considers the softer (but harder!) issues that need to be addressed to ensure we get good life from our bearings and equipment in general, because we don't normally achieve the life that our equipment is capable of.

PRESENTATION:

Why top Companies make Reliability a core business value

Andrew Fraser



PRESENTATION:

Bearing and Equipment Lubrication Strategies Getting it Right

Ian Knight



WORKSHOP:

Root Cause Analysis Exploring the Apollo Root Cause Analysis Program and Methodology

Melissa Cameron



PRESENTATION:

Equipment Reliability and The Bearing

Dan Bradley



PRESENTATION:

KPI's and Performance Parameters

PRESENTATION:

Best Practices in Predictive Maintenance Training

Helmut Salsland



PRESENTATION:

Planning and Scheduling

Michael Whittaker



WORKSHOP:

A Well Run Predictive Maintenance Program Exploring the key ingredients and control parameters of an effective PDM program

PRESENTATION:

Bearing Life Condition and Prediction

Fabrice Brion



PRESENTATION:

Vibration Sensors and Monitoring Equipment Developments

Kai Gessenich



PRESENTATION:

Improving the diagnostic capabilities with Big Data Analytics and Prognostics

Jorge Alarcon



PRESENTATION:

Reliability Consulting

Gary Tyne



PRESENTATION:

Filtration for prolonged oil service Life

Kees Veltman



WORKSHOP:

Bearing Root Cause Failure Analysis How to define the causes of bearing wear and damage through raceway and component investigation

PRESENTATION:

Best Practices in Bearing Maintenance

Per Arnold



WORKSHOP:

Oil Analysis Using Oil Analysis methodologies to control levels of Oil Contamination and how to reduce wear and failure.

PRESENTATION:

The Role of Oil Analysis in Predictive Maintenance

Gwyn Simmons



PRESENTATION:

The Importance of Raw Material purity and cleanliness requirements, for precision bearing rings

Pietro Prosino



WORKSHOP:

Manage, Coach and Lead Exploring the practical skills and tools for a new frontline leadership

PRESENTATION:

From Control Drive Management to Self Driven Leadership

Peter Guendling



PRESENTATION:

Oil Mist Technologies

Javier Vazquez Dodero



PRESENTATION:

Outsourcing Maintenance Technologies

Martin Blenkers



PRESENTATION:

The use of Ultra Sound within Bearing Maintenance and Prediction Strategies

PRESENTATION:

The Monitoring of low frequency bearings

Tom Murphy



PRESENTATION:

The Bearing Industry Responsibilities

Jan Brons



WORKSHOP:

ISO 55001:2014 Asset Management Applying ISO 55001:2014 standard to your reliability and asset management strategies

PRESENTATION:

Best Practices in Lubrication Training

Martin Williamson



PRESENTATION:

Shim Rings: Cost reduction in Assemblies and design Tips

Christoph Martin



PRESENTATION:

The UE System approach to controlling your greasing strategies

Frank Ragwitz



PRESENTATION:

Maintenance, Getting The Formula Right

Wim Vancauwenberge



PRESENTATION:

Protecting VFD Driven Motors from Bearing Currents

Martin Deiss



PRESENTATION:

Effective Sealing Preventing Bearing Oil Contamination

Markus Ratzel



PRESENTATION:

Equipment Alignment for Prolonged Life

Markus Brotsack



PRESENTATION:

Low-speed bearing monitoring Challenges and Solutions

Oscar Van Dijk



PRESENTATION:

Lubrication Reliability

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