

# BEARING RELIABILITY CONFERENCE & EXPO

**DORTMUND, 10 - 12 OCTOBER 2017**

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**BRCE**  
BEARING RELIABILITY CONFERENCE & EXPO

# 2<sup>nd</sup> Edition of BRCE

## will be held from 10 to 12 October 2017

The 4 keynote BRCE speakers "The Global Experts" will share with us 4 hours of enlightening information and state of the art technologies in the Bearing and Reliability world. These presenters will set the scene for the 2017 Bearing Reliability Conference and Exhibition and pave the way for 16 of the best global professionals to follow.

The 4 conference themes are:

- Bearing Applications and their Maintenance
- Industrial Maintenance and Reliability
- Lubrication
- Prediction and Planning in Maintenance



Industrial Maintenance and Reliability

Presentation

**The Bearing Industry, Value First Then Price**

Todd Snelgrove

SKF Global Vice President of Value



Prediction and Planning in Maintenance

Presentation

**The Global Predictive Maintenance Sphere**

Chris Hansford

Managing Director and Owner of Hansford Sensors

The opening conference presentation will be delivered by Todd C. Snelgrove. Todd is what is referred to as a Global Value Merchant, always advocating the power of Increasing You and Your Customer's Bottom Line by demonstrating, documenting, procuring, pricing and selling based on best Total Profit Added™.

Global Vice President of Value with over 15 years' experience in being the team leader on understanding, presenting, calculating pricing, and purchasing on Total Cost of Ownership (TCO) or Total Profit Added™ (TPA™), Todd is acknowledged to be a leading subject matter expert in the field of value.

### **Why talk about Value in the Industrial Maintenance and Reliability World?**

Simply put - the bearing is the heart of our rotating equipment and if the bearing fails in any form then the reliability of our equipment starts to suffer and so does our financial performance, from the slightest of lost or wasted revenue to the possibility of a catastrophic effect on the balance sheet.

It makes little difference if we are users of bearings, manufacturers of bearings, suppliers of bearings or suppliers of bearing related performance and reliability technologies, our tasks are all VALUE related. The value chain is only as strong as its weakest link and Todd will explore with us how our own contributions will ultimately improve bearing and equipment reliability.

Bearing and equipment reliability can be improved and bottom line profits can be maximized, however the opposite is also true, bearing and equipment reliability can be decreased and bottom line profits damaged. The key to improved reliability is what one does to the equipment and the bearing or how we treat them during their operational lifetime. It is all about care, the care we apply to the machine or product and in particular, knowing when to apply the care or actions needed to safeguard or protect equipment life.

Predictive Maintenance or Pdm as it is often called, is an important ingredient of any maintenance and reliability strategy, because without it one will never know that the machine has problems until it's too late. Pdm employs technologies like vibration and bearing monitoring, oil analysis, thermography, ultrasonics,... to name a few.

The key to any successful Pdm strategy is knowing what technologies to employ and how to go about employing them and we are fortunate at this year's BRCE event to have a truly global guru to address us in this sphere, Chris Hansford.

Chris Hansford is the Managing Director of Hansford Sensors Ltd., a qualified Electro-Mechanical Engineer and has over 35 years experience in vibration and condition monitoring. Chris Hansford is a speaker about predictive maintenance that we all should hear, he has a wealth of knowledge about the developments and trends in the global condition monitoring sphere. He will also set the scene for the 5 Pdm experts who will present directly after him.



Bearing Applications and their Maintenance

Presentation

### The Global Bearing and Maintenance Trends

Wim Vancauwberge

Director BEMAS (Belgium Maintenance Association)

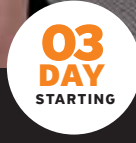
The importance of the bearing in any rotating machine, is like power in our home, the on/off switch to all our appliances and food for our bodies. Simply put, if the bearing doesn't operate correctly, neither does the machine.

Bearings come in all shapes, sizes and configurations – designed to meet the most arduous or toughest operational environments or simply to provide a trouble free machine for the entirety of its life. However, reliable bearing functionality is also dependent on how we treat the equipment, how we operate it, how we maintain it and how we lubricate it. This is maintenance.

Maintenance technologies and strategies vary greatly; they are more often than not dependant on the application, the required machine reliability and the operational environments and we have seen over the years an evolution and in some cases a revolution, in available or employed maintenance strategies. Ranging from fix it when its broke to all forms of diagnostics and control driven strategies, for example like the current evolution of Industry 4.0.

For the Maintenance Manager, Reliability Engineer, Maintenance Forman / Supervisor or just the Mechanic, knowing what strategy to employ for one's own equipment is a complex time consuming issue and if we get it wrong it can be a very expensive lesson. To lead the session on Bearing applications and their environment, we are extremely fortunate to have a Maintenance knowledge expert that can put logic into our understandings and strategy selection processes. Wim Vancauwenberghe will lead and guide us through this section of the conference.

Wim Vancauwenberghe is the Director of BEMAS, the Belgian Maintenance Association and has held this position since 2000. He holds a master degree in industrial engineering and is Certified Maintenance & Reliability Professional by SMRP.



Lubrication

Presentation

### The Lubrication Role in Machine Reliability

Ian Knight

Managing Director and Key Owner Enluse BV

Wear is defined as being caused by the relative motion between two surfaces that are in close contact, causing deformation or removal of the material; this known as mechanical wear. Wear can also be caused by other sources such as harsh or reactive chemicals, or cavitation.

This definition of mechanical wear is well known within our industry and we also understand that friction and wear can be reduced through the application of a lubricant; however what is not so commonly understood is how lubrication and its application, effect the level of equipment wear. Today with bearings in many applications, life can be infinite, in other words bearings just don't wear out.

Mechanical wear can be predominantly defined as Abrasive Wear and Adhesive Wear. Abrasive wear is related to the cleanliness of the lubricant and Adhesive Wear is related to the metal to metal contact of the moving components due to a loss of the lubricants viscosity.

This section of the conference addresses the causes of mechanical wear and offers lubrication solutions / strategies to eliminate them. We are fortunate to have a very experienced bearing person present this conference sector and set the scene for the speakers that will follow. Ian Knight from Enluse BV.

Ian Knight is the principal owner and director of Enluse BV in the Netherlands. Enluse is an organization that began in 2003 and one that specializes in the supply of products and knowledge to help companies improve their plant lubrication practices. Prior to starting Enluse Ian worked for the SKF organization for more than 30 years always in the fields of service, sales and equipment reliability. Ian is an accomplished presenter and very competent in the fields of bearing lubrication and equipment reliability. He is a must to listen to.

# THE SCENE IS SET FOR A GREAT CONFERENCE

Beside the 4 key note speaker presentations and 16 global bearing and reliability presentation, there will be 8 x workshop style sessions in the networking area for the exhibition public.

# TOP SPEAKERS

## AT THE BRCE CONFERENCE

**Todd C. Snelgrove**



The Bearing Industry:  
Value First then Price

**Dan Bradley**



Bearing Reliability  
- It is a Journey

**Per Arnold Elgqvist**



Making Bearings Reliable

**Jens Kammann**



Bearing Maintenance  
and the Right Tools

**Chris Hansford**



The Global Predictive  
Maintenance Sphere

**Dieter Charle**



Cut through the complexity  
of Machinery Analysis with  
High Frequency Vibration Analysis

**Matthias Winkler**



Where can condition  
monitoring fail?



**Gwyn Simmonds**



Fluid Analysis for  
Bearing Reliability

**Trinath Sahoo**



Bearing failure due to poor  
lubrication and contamination,  
Causes and Cures

**Wim Vancauwenberghe**



The Global Bearing and  
Maintenance Trends

**Martin Blenkers**



Bearing Reliability,  
Outsource or do it Yourself

**Robin Ottenfelt**



The Digital Evolution for  
the Maintenance and  
Service Industry

**Pietro Prosino**



The Importance of  
Heat Treatment in Precision  
Bearing Applications

**Martin Deiss**



Protecting VFD Driven Motors  
from Bearing Currents

**Ian Knight**



The Lubrication Role  
in Machine Reliability

**Haris Trobradović**



Taking the CMMS  
out of lubrication

**Martin Williamson**



Best Practices in  
Lubrication Training  
-  
Filtration for Improved  
Bearing and Equipment Life

**David Beattie**



Bearing Failure Analysis for  
Improved Reliability

# CONFERENCE AGENDA

## DAY 01

### 10 OCTOBER

Morning Theme:  
Industrial Maintenance and Reliability

- 12:00 REGISTRATION/WELCOME COFFEE
- 13:00 Welcom Introduction  
**Dan Bradley**
- Key Note Address:
- 13:15 The Bearing Industry Value First then Price  
**Todd C. Snelgrove**
- Session Topic
- 14:15 Bearing Reliability - It is a Journey  
**Dan Bradley**
- 15:00 COFFEE BREAK
- Session Topic
- 15:15 Reliability at Heinz Foods  
**Darren Maloney**
- Session Topic
- 15:45 Making Bearings Reliable  
**Per Arnold Elqvist**
- Session Topic
- 16:15 Errorism - God created error and saw it was good!  
**Willem Stortelder**

## DAY 03

### 12 OCTOBER

Morning Theme:  
Lubrication

- Key Note Address:
- 08:30 The Lubrication Role in Machine Reliability  
**Ian Knight**
- Session Topic
- 09:30 Taking the CMMS out of lubrication  
**Haris Trobradović**
- 10:00 COFFEE BREAK
- Session Topic
- 10:45 Best Practices in Lubrication Training  
**Martin Williamson**
- Session Topic
- 11:15 Filtration for Improved Bearing and Equipment Life  
**Martin Williamson**
- 10:45 BRCE and the future
- 11:15 Closing Ceremony

## DAY 02

### 11 OCTOBER

Morning Theme:  
Prediction and Planning in Maintenance

- Key Note Address:
- 08:30 The Global Predictive Maintenance Sphere  
**Chris Hansford**
- Session Topic
- 09:30 Cut through the complexity of Machinery Analysis with High Frequency Vibration Analysis  
**Dieter Charle**
- 10:00 COFFEE BREAK
- Session Topic
- 10:15 Where can condition monitoring fail?  
**Matthias Winkler**
- Session Topic
- 10:45 Fluid Analysis for Bearing Reliability  
**Gwyn Simmonds**
- Session Topic
- 11:15 Bearing Failure Analysis for Improved Reliability  
**David Beattie**
- Session Topic
- 11:45 Bearing failure due to poor lubrication and contamination, Causes and Cures  
**Trinath Sahoo**
- 12:15 LUNCH BREAK
- Afternoon
- Bearing and Machine Maintenance Fundamentals
- Session Topic
- 13:30 The Global Bearing and Maintenance Trends  
**Wim Vancauwenberghe**
- 14:30 COFFEE BREAK
- Session Topic
- 14:45 Bearing Reliability, Outsource or do it Yourself  
**Martin Blenkers**
- Session Topic
- 15:15 The Digital Evolution for the Maintenance and Service Industry  
**Robin Ottenfelt**
- Session Topic
- 15:45 The Importance of Heat Treatment in Precision Bearing Applications  
**Pietro Prosino**
- Session Topic
- 16:15 Protecting VFD Driven Motors from Bearing Currents  
**Martin Deiss**
- 16:45 Evening
- 19:30 Conference Dinner & Entertainment  
Room Goldsaal  
Hosts: Dan Bradley and Ian Knight

# 8

# FREE WORKSHOPS AT THE BRCE EXPO AREA

This year at the BRCE event we are not only running a conference with high quality speakers in all aspects of Bearing Reliability and Maintenance. We are also opening up the exhibition area to the public with 8 x workshop style sessions which will cover the following topics:

**Day 1: 14.15 - 15.15**

Understanding Vibration Sensors, their selection, installation, maintenance and effective use  
- Chris Hansford & Kai.Gessenich  
*(Hansford Sensors)*

**Day 1: 15.30 - 16.30**

How to sell value over price  
- Todd Snellgrove  
*(ABB)*

**Day 2: 09.30 - 10.30**

Understanding and implementing a Reliable Lubrication program  
- Toon van Grunderbeeck & Ian Knight  
*(Enluse BV)*

**Day 2: 10.45 - 11.45**

Bearing Failure Analysis  
- Per Arnold Elgqvist  
*(Proactivo)*

**Day 2: 14.00 - 15.00**

Understanding viscosity and keeping your oil in a good working condition.  
- Martin Williamson  
*(KEW Engineering)*

**Day 2: 15.15 - 16.15**

Using High frequency acoustics to control lubrication  
- Haris Trobradovic  
*(SDT)*

**Day 3: 09.30 - 10.30**

The Digital Evolution for the Maintenance and Service Industry  
- Robin Ottenfelt  
*(Hash Mobile)*

**Day 3: 10.45 - 11.45**

Bearing maintenance and the right tools  
- Jens Kammann  
*(SKF Maintenance Products)*



**FREE**  
**WORKSHOP**  
**FOR VISITORS**

# BEARING FAILURE ANALYSIS

Presented by **PER ARNOLD ELGQVIST**

- The 12 different reasons why bearings fail
- how to recognize these 12 bearing failure modes by examining damaged bearing wear patterns
- Corrective actions to prevent the 12 failures from reoccurring
- Visitors can also bring their own failed bearings and Per Arnold will analyse them
- Visitors attending this workshop can get a -50% discount on the online course about bearing failure analysis

You can reserve your seat by registering online.  
Register today as **there are only 45 seats available.**

## Your Contacts



**Ian Knight**

Paper & Presentation Submissions

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