

For New Technology Network

**NTN**®

# Roller Bearing Application & Maintenance Seminar



Call 1-800-405-6720  
to register



# ROLLER BEARING APPLICATION AND MAINTENANCE SEMINAR

Regardless of industry, one reality is that demands on rotating equipment result in demands directly on the bearings. Join the NTN *Technical Engineering And Maintenance TEAM* on a journey through bearing design, selection, installation, maintenance and root cause failure analysis.

## Introduction to Anti-Friction Bearings

Participants will learn the fundamentals of current bearing technology and how to consider selection including:

- bearing types, design and materials
- product features and benefits
- theoretical bearing life calculation
- tolerances and precision grades
- radial internal clearance
- shaft and housing fit selection

## Installation

In conjunction with classroom lectures, the participants will learn, in a hands-on environment, the correct procedures for mounting and dismounting the following types of bearings:

- ball and roller bearings, cold and hot mounting
- bearing units and heavy duty blocks
- tapered roller bearings and setting end play
- large bore bearings including the use of hydraulics

## Lubrication & Sealing

Lubrication & Sealing are the root cause of more than 50% of all premature bearing failures. Although the lubricant is an integral component of every bearing system, it is often overlooked. This very important topic is covered in detail:

- lubrication & sealing fundamentals
- requirements of the bearing
- selecting and evaluating performance
- methods of delivery
- diagnosing and solving problems

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# ROLLER BEARING APPLICATION AND MAINTENANCE SEMINAR

If you design, maintain or repair rotating equipment this program is a must to enhance your assets daily performance. An intensive 3 day course presented using interactive lectures and hands-on workshops concentrates on common bearing problems with a practical approach on how to avoid premature bearing failure.

## Failure Analysis

A major component of any effective preventative maintenance program is understanding what went wrong...and then correcting the problem. Bearing failure analysis is a pro-active, front line job that has proven to increase equipment up-time. In-depth Bearing Failure Analysis lectures with examples and case studies are illustrated by the industry's leading authorities on bearing analysis and failure prevention.

## Make it Personal

This is a great opportunity to pick up valuable knowledge from NTN's Engineering and Service team and challenge them with your bearing troubles. Discuss your bearing challenges or share your specific case study amongst participants in a comfortable open forum. Take your new knowledge and expertise back to your workplace to share with co-workers and make your bearings survive longer.

## BONUS

Participants will have a chance to visit one of Canada's most advanced bearing manufacturing plants.

## Location:

NTN Bearing Corporation of Canada  
305 Courtneypark Drive West  
Mississauga, Ontario  
Canada

## Date:

May 15<sup>th</sup> to 17<sup>th</sup>, 2012  
8:30am to 5:00PM Daily

## REGISTRATION FEE:

3 Days for just \$995+HST per person.  
Lunch and all materials included.

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## *The Presenters...*



*Marcus Wickert, P.Eng.* Currently NTN's Technical Resources Manager, Marcus has provided bearing failure analyses, equipment reviews, and installations to heavy industries for over eighteen years. Familiar with the challenges of Pulp and Paper, Mining, Forestry, Aggregate and general industry, he has delivered maintenance seminars across Canada to hundreds of individuals in a practical interactive format.



*Randy Ikenouye, P. Eng.* As a Mechanical Engineer with NTN for over sixteen years, Randy has succeeded at facilitating customers with new equipment designs as well as optimizing existing equipment performance. His current position as Engineering Manager for Industrial OEM and Heavy Duty Truck focuses on advancing original equipment design across Canada as well as assisting the transportation industry with their daily requirements and challenges.

**We invite you to roll up your sleeves with us.**

**Call 1-800-405-6720 or email [TrainingPrograms@ntn.ca](mailto:TrainingPrograms@ntn.ca)  
and enroll today!**

**[www.ntn.ca](http://www.ntn.ca)**