

Programme:

Day I: 22nd June 2010

- 09:00 – 10:30 Registration and arrival coffee
- 10:30 – 12:00 **Welcome**
Room: Padjelanta
Prof. Uday Kumar
- Plenary session**
- Anders Björnström, Head of maintenance development, Vattenfall hydro power, SWEDEN
 - Olov Candell, Director maintenance support development, Saab Support & Services, SWEDEN
 - Kjell Lundberg, Head of maintenance development, Smurfit Kappa, SWEDEN
 - Rajesh Jain, International head, Larsen & Toubro, U.K.
- 12:00 – 13:00 Lunch
- 13:00 – 14:30 **Workshop I: Railway**
Room: Ripan
Moderator: Per-Olof Larsson-Kräik
Lead speakers:
- Ted Luiten, ProRail, The Netherlands
 - Clive Roberts, Birmingham University, U.K.
- 13:00 – 14:30 **Workshop II: Aviation**
Room: Vargen
Moderator: Olov Candell
Lead speakers:
- Chris Markou, International Air Transport Association, CANADA
 - Olov Candell SAAB Support and Services
 - Jan Block SAAB Support and Services
- 13:00 – 14:30 **Workshop III: Process industry**
Room: Björnen
Moderator: Anders OE Johansson & Seppo Saari
Lead speakers:
- Torbjörn Almqvist LKAB
 - Petri Mure, Outokumpu
- 14:30 – 15:00 Coffee break
- 15:00 – 16:30 **Railway/AutoMain-meeting**
Room: Ripan
Organised by Luleå Railway Research Centre
Conducted by Henri Olink, ProRail, The Netherlands
- 18:30 – 22:30 **Boat tour and Dinner**
- 22:00 – 01:00 **Midnight Sun Golf**

Day II: 23rd June 2010

- 08:00 – 09:00 Registration
- 09:00 – 09:30 **Opening ceremony**
Room: Nordkalotten
Professor Uday Kumar, Congress Chair
Governor Norrbotten County Per-Ola Eriksson.
Professor Johan Sterte, Vice Chancellor, Luleå University of Technology
- 09:30 – 10:30 **Keynote session**
Chair: Uday Kumar
Room: Nordkalotten
- Chris Markou, International Air Transport Association, CANADA
 - Joakim Rylander, Director of business development, Saab Support & Services, SWEDEN
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 **Keynote session**
Chair: Uday Kumar
Room: Nordkalotten
- Benoit lung, Professor, Nancy University, FRANCE
 - Björn Swanberg, Head of technical development, Swedish transport administration, SWEDEN
 - AK Verma, Director, IIIT, INDIA
- 12:30 – 13:30 Lunch
- 13:30 – 15:00 **Technical Session I [Parallell]**
Room: Nordkalotten
Chair: Kari Komonen
- Fundamentals of the eMaintenance Concept**
M. Kajko-Mattson, R. Karim and A. Mirijamdotter, SWEDEN
- An Enterprise Risk Management framework for evaluation of eMaintenance**
P. Söderholm and R. Karim, SWEDEN
- Systems Approach to Integrated E-Maintenance of Large Engineering Plants**
A.K. Verma, A. Srividya and P.G. Ramesh; INDIA
- Prediction of maintenance needs for railway switches and crossings – using advanced computing**
Y Fuqing and U. Kumar, SWEDEN
- Context-sensitive Predictions of Machine Reliability**
J. Krause and K. Kabitzsch, GERMANY
- Model-based Data Acquisition for improved eMaintenance strategies**
A. Gössling, S. Theurich and M. Wollschlaeger, GERMANY
- 13:30 – 15:00 **Technical Session II [Parallell]**
Room: Padjelanta
Chair: Per-Olof Larsson-Kräik
- From reactive to predictive e-maintenance: Investigating organizational opportunities and challenges associated with design and implementation of remote diagnostics services**
K. Jonsson, P. Levén and J. Holmström, SWEDEN
- eMaintenance of railway infrastructure – a matter of efficiency**
K. Gutsche and T. Böhm, GERMANY
- Remote condition Monitoring and Control of wayside Rail Lubricators**
G. Chattopadhyay, A. Desai and A. Howie, AUSTRALIA
- Application of dynamic benchmarking of rotating machinery for eMaintenance**
D. Galar and L. Berges, SPAIN
- Maintenance IT practices in Swedish industry**

- M. Kans and I. Williamsson, SWEDEN
- Development of a decision optimisation model for aircraft workshop capacity**
M. Larsson, A. Parida and R. Dandotiya, SWEDEN
- 15:00 – 15:30 Coffee break
- 15:30 – 17:00 **Technical Session III [Parallell]**
Room: Nordkalotten
Chair: Jan Holmström
- Utilizing RFID and PDA together for mobile E-maintenance**
D. Baglee; C-Y Yua and M. Knowles, UNITED KINGDOM
- Maintenance Workforce Management: A Case Study**
N. Safaei and B. Ghodrati, CANADA
- Simulation based railway infrastructure maintenance optimisation**
L. M. Quiroga and E. Schnieder, GERMANY
- Research and Practice Agenda of Industrial e-Maintenance: Information Logistics as a Driver for Development**
D. Haftor, M. Kajtazi and A. Mirijamdotter, SWEDEN
- Refining condition monitoring information from machine vision based on-line solid debris analysis of lubrication oil in cold rolling mill**
V. Rauhala, J. Sipola and P. Vaara, FINLAND
- Instance Operations Management: A Research Agenda**
J. Holmström, T. Ala-Risku, K. Främling and J. Kauremaa, FINLAND
- 15:30 – 17:00 **Technical Session IV [Parallell]**
Room: Padjelanta
Chair: A.R. Mohanty
- A RESEARCH BASED BENCHMARKING TOOL AS A PART OF eMAINTENANCE**
K. Komonen, S. Kunttu and T. Ahonen, FINLAND
- End-user aspects on Data Sources and User-Interfaces in Maintenance**
S. Saari and A. Siimes, FINLAND
- Challenges in e-Maintenance**
R. Jain, UNITED KINGDOM
- The role of information logistics and data warehousing in educational facilities asset management**
A. C. V. Vieira, and A. J. M. Cardoso, PORTUGAL
- Graphical Method for Visualizing Machine's Downtime**
A. Wijaya, J. Lundberg and U. Kumar, SWEDEN
- Failure Diagnostics on Railway Turnout Systems Using Support Vector Machines**
O.F. Eker and F. Camci, TURKEY and U. Kumar, SWEDEN
- 19:00 – 22:30 **Congress dinner**
Nordkalotten



Day III: 24th June 2010

- 09:00 – 10:30 **Keynote session**
- Anita Mirijamdotter, Linneus University, SWEDEN
 - Jerker Delsing, Luleå University of Technology, SWEDEN
 - Mira Kajko-Mattsson, Associate Professor, KTH School of Information and Communication Technology, SWEDEN
- 10:30 – 11:00 Coffee break
- 11:00 – 12:00 **Technical Session V [Parallell]**
Room: Nordkalotten
Chair: Anita Mirijamdotter
- Maintenance optimisation of large coal-fired power plants**
U. Aha, A. Findeisen and H. J. Krautz, GERMANY
- Maintenance Optimization Models and Criteria**
A. Van Horenbeek, L. Pintelon and P. Muchiri, BELGIUM
- Gear Fault Detection Using Instantaneous Angular Speed Monitoring**
A. Mohanty and D. Agrawal, INDIA
- Condition monitoring of train wheel wear and track forces: A case study**
M. Palo, I. Arasteh Khouy, H. Schunesson and D. Larsson, SWEDEN
- 11:00 – 12:00 **Technical Session VI [Parallell]**
Room: Padjelanta
Chair: Seppo Saari
- Challenges for Interactive Electronic Technical Publications in Military Aviation**
M. Szymanowski, O. Candell and R. Karim, SWEDEN
- An integrated approach for open e-Maintenance: Opportunities and challenges**
M. Biswal, USA and A. Parida, SWEDEN
- Case-Based Reasoning Applied to Geometric Production Measurements**
E. Olsson, P. Funk and A. Andersson, SWEDEN
- Risk Based Method to Determine Inspections and Inspection Frequency**
J. Van Der Werf, NETHERLANDS
- 12:00 – 13:00 Lunch
- 13:00 – 14:00 **Technical Session VII [Parallell]**
Room: Nordkalotten
Chair: R. Jain
- Prerequisites for a Business-oriented Fleet Availability Assurance Program in Aviation**
A. Ahmadi, R. Karim and J. Barabady, SWEDEN
- Root Cause Failure Analysis of Coal Mill Vertical Shaft**
M. Sarangi, S. Ismail, INDIA; A. Parida and U. Kumar SWEDEN
- Mapping FMEA into Bayesian Networks**
A. Garcia and E. Gilabert, SPAIN
- Model Based Fault Diagnosis of a Rotor System**
A. Mohanty and A.K. Jalan, INDIA
- 13:00 – 14:00 **Technical Session VIII [Parallell]**
Room: Padjelanta
Chair: E. Schnieder
- On Communicating and Motivating the Benefits of a Condition Based Maintenance Program**
M. Bengtsson, SWEDEN
- Maintenance Resource Prioritization in a Production System Using Cost-effective Importance Measure**
S. Gupta INDIA and U. Kumar, SWEDEN

Improving Overall Equipment Effectiveness (OEE) of process plant equipments through e-Diagnostics
T. Sahoo, INDIA and A. Parida, SWEDEN

Loading and hauling equipments maintenance cost estimation in surface mining
A. R. Sayadi, A. Lashgari and H. M. Basiri, IRAN

14:00 – 14:30 **Closing session**
Room: Nordkalotten

14:30-- Coffee



Foto: Lena Nilsson

Social programme

Boat Tour and Dinner

Tuesday 22 June 1830-2230

The coach departs Nordkalotten at 1830. A boat will then take you out in to the Archipelago where a buffet dinner will be served on one of the islands. After dinner the boat will return to the city and you will then return to Nordkalotten by coach. Expected return to the hotel is at 2230. Casual clothing is recommended.

Midnight Sun Golf

Tuesday 22 June 2200-0100

Upon return by boat to the city from the Archipelago a transfer has been arranged to take you directly to the golf course. You are therefore required to bring your golf gear with you on the boat tour. Return transfer to Nordkalotten has been arranged and is expected to return around at approx 0100.

Congress Dinner

Wednesday 23 June 1900-2230

The congress dinner is held at Nordkalotten (the congress venue).

