

Magnetic Materials in Electrical Machine Applications 2009

The Magnet Technology Centre would like to welcome you to the 4th Nordic conference on magnet technology in Pori, Finland from the 4th to 6th of November 2009.

The conference, Magnetic Materials in Electrical Machine Applications 2009, will provide you with a good chance to update your knowledge in the field of magnetic materials utilized in electrical machinery. In addition to the interesting presentations, you will have a great opportunity to discuss with the presenters, authors and colleagues while enjoying the evening events. You can also make use of the spa facilities during your stay at the conference hotel.

The conference is hosted by the Magnet Technology Centre in technical co-sponsorship with IEEE Magnetics.

Registration

Registration

The deadline for early registration is 9.10.2009. To register, please fill in the registration form which can be found on the Magnet Technology Centre web pages - www.prizz.fi/magnettechnology.

Payment

Early registration fee is 400 € / person (+ VAT), for students 150 €. After the early registration deadline, the fee is 500 € (+ VAT). The fee includes lunches and refreshments during the breaks, get - together party, conference dinner and excursion to the Neorem Magnets plant. All the registered participants will receive an invoice before the conference.

Cancellations

Cancellations can be e-mailed to minna.haavisto@prizz.fi. Please note! No fees will be returned.

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WEDNESDAY 4.11.2009

18:00 – 20:00 **Registration**

19:30 – 22:00 **Get Together – Party**, sponsored by Neorem Magnets Ltd. and ABB Ltd.
Yyteri Spa Hotel

THURSDAY 5.11.2009

8:00 – 9:00 **Registration + poster set-up**
Yyteri Spa Hotel

9:00 – 10:00 **Plenary session:**

Welcome speech, *Dr. Martti Paju, Magnet Technology Centre*

Recent developments for high performance R-Fe-B magnets, *Dr. Rolf Blank, Vacuumschmelze GmbH*

10:00 – 11:00 **Permanent magnet materials – session:**

Chairman, Dr. Juhani Mantere, ABB Ltd.

Polymer bonded magnets for motor applications, *Dr. Thomas Schliesch, Max Baermann GmbH (invited)*

High Performance Sm-Co Magnets for critical Applications, *Dr. Jingfang Liu, Electron Energy Corporation (invited)*

11:00 – 11:30 **Coffee**

11:30 – 12:30 **Permanent magnet materials - session (continuation):**

Flux losses with time in sintered NdFeB magnets, *Minna Haavisto, Magnet Technology Centre*

Corrosion mechanisms of NdFeB-magnets, *Jouko Tiittanen, Neorem Magnets Oy*

Joule losses of permanent magnets in PMSMs, *Hanne Jussila, Lappeenranta University of Technology*

12:30 – 13:30 **Lunch**

13:30 – 14:10 **Permanent magnet materials - session (continuation):**

Cost effective motor design based on isotropic and anisotropic bonded NdFeB magnets, *Dr. Bernd Grieb, Magnequench*

Recent developments in ferrites

14:10 – 15:30 **Coffee and poster – session**

15:30 – 17:00 **Other magnetic materials – session:**

Chairman, Dr. Jussi Lähteenmäki, Kone Ltd.

Soft magnetic composites for electrical machine applications, *Prof. Alan Jack, University of Newcastle (invited)*

Magnetic properties of stainless steels, *Docent Mauri Veistinen, Helsinki University of Technology (invited)*

Soft magnetic steels

19:00 – 22:00 **Conference dinner**
Yyteri Spa Hotel

FRIDAY 6.11.2009

8:30 – 9:00 Registration
Yyteri Spa Hotel

9:00 –11:00 Magnetic materials in simulations – session

Chairman, Prof. Antero Arkkio, Helsinki University of Technology

Electromagnetic model and material parameters -What do these parameters tell?, Prof. Lauri Kettunen, Tampere University of Technology, *Invited*

Thermal behaviour analysis of permanent magnet motors, Dr. Mircea Popescu, Motor Design Ltd., *Invited*

Modelling of eddy currents in steel laminations, Jenni Pippuri, Helsinki University of Technology

The effect of magnetostriction in electrical steel sheets: numerical result and measurements, Katarzyna Anna Fonteyn, Helsinki University of Technology

11:00 – 11:30 Coffee

11:30 – 13:30 Electrical machine applications – session

Chairman, Prof. Juha Pyrhönen, Lappeenranta University of Technology

Permanent magnet generator for small hydropower plants, Dr. Jouni Ikäheimo, ABB Oy, *Invited*

Hybrid Excitation Synchronous Machines, Katteden Kamiev, Lappeenranta University of Technology

The effect of a permanent magnet synchronous machine in the electric energy recovery system's efficiency in a hydraulic forklift, Tatiana Minav, Lappeenranta University of Technology

From weft feeders with induction motors - To advanced integral motor products with PM technology, Birger Johansson, IRO AB

13:30 – 14:30 Lunch

14:30 – 16:30 Industrial visit to the Neorem Magnets Oy plant in Ulvila

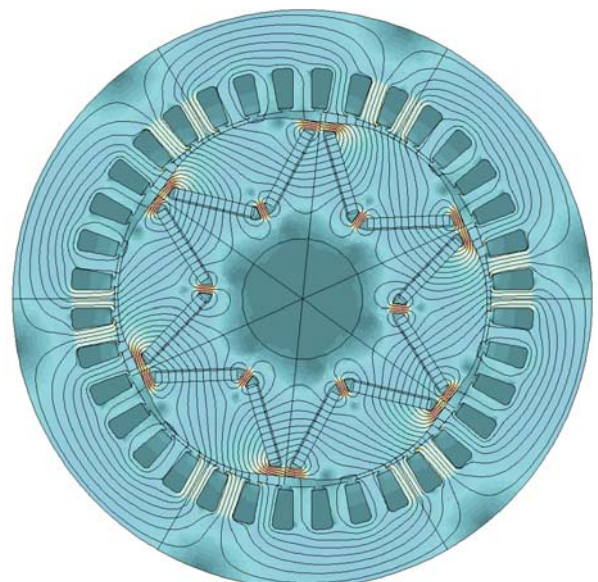
Exhibition

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There will be an exhibition during the conference. Companies are welcome to present their products.

The exhibition will be located inside the conference room. This will cost 400 €/ table and includes one table (size 140 x 35 cm) and the surrounding space available for the whole duration of the conference.

To make an exhibition table reservation, please fill in the form on the Magnet Technology Centre web pages.



Venue

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Yyteri Spa Hotel, Sipintie 1, Pori

Hotel information

The conference prices for hotel rooms (VAT included):

Single room: 100 €/ night

Double room: 122 €/ night (61 €/ person)

The price includes a buffet breakfast and free use of the spa and fitness facilities.

A link to the online hotel reservation form can be found on the Magnet Technology Centre web pages

www.prizz.fi/magnettechnology.

For more information about the hotel:
www.yyterinkylpyla.fi/en



Transportation

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Pori can be reached by air, train or bus.

All international flights arrive via Helsinki. Flight information: www.finnair.fi. Bus transportation will be available from Pori airport to the conference hotel, for the flight arriving at 17:35, and from the railway station for the train arriving at 17:48 on Wednesday 4.11. If you would like to use the bus transportation, please check the box in the registration form.

There are also taxis available in front of the airport building. A taxi from the airport to the conference hotel will cost from 35 to 40 €.

There will also be a bus transportation from the Neorem Magnets plant to the Pori airport, the railway station and back to the conference hotel at 16:30 on Friday 6.11.



WELCOME TO PORI!

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