

# UK Magnetics Society

## UKMAG two-day seminar

HOSTED AND CO-SPONSORED BY HÖGANÄS AB, SWEDEN

# Höganäs



## *Developments in Electric Propulsion Technology*

at

Dunkers Kulturhus  
Kungsgatan 11, 252 21 Helsingborg, Sweden

**20-21 September 2010**

## PROGRAMME

The demands for reduced fuel consumption as well as environmental concerns are two of the main drivers for the introduction of new hybrid or electric vehicle propulsion systems. Extensive efforts are being made in research, development and industrialisation of reliable and well performing systems at reasonable costs. Continuously improved electrified products are being launched at increasingly pace but in order to make the journey towards zero emissions possible new innovations and new technology will be needed. This seminar arranged together with the UK Magnetic Society will provide the exposure to the latest state of the art hybrid and electric propulsion developments for vehicle applications. In particular applications based on new magnetic materials such as Soft Magnetic Composites SMC will be highlighted.

The venue will be Dunkers Kulturhus in Helsingborg which is located approximately one and a half hours drive from Copenhagen airport in the southern state of Skåne. In addition to the comprehensive papers, test driving of electric vehicles will be arranged as well as a visit to the "Power of Powder" application development facilities of Höganäs AB.

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## SEMINAR FEE

The fixed seminar fee includes attendance at the technical sessions, abstract booklet, refreshments, lunch on 20 September, evening seminar dinner on 20 September, lunch on 21 September, transport to and from Helsingborg/Höganäs and a plant tour of Höganäs AB. Accommodation costs are paid separately and are not included in the seminar fee.

## SEMINAR VENUE

Dunkers Kulturhus in Helsingborg is one of the largest and most interesting cultural centres in Scandinavia. The SEK 330 million project houses among other things, a new international art museum, a town museum and a magnificent concert hall with a splendid panoramic view of the Öresund sound, young culture, a shop, a reading room, a restaurant facing the sea as well as a bistro for lighter fare. The building has been designed by Kim Utzon, one of Denmark's foremost architects.

## OVERNIGHT ACCOMMODATION

A block booking of overnight accommodation for the nights of Sunday 19 September, and Monday 20 September, has been reserved at the Elite Hotel Marina Plaza, Kungstorget 6, 251 10 Helsingborg, tel: +46 (0)42 1921 00, fax: +46 (0)42 1496 16, [www.elite.se/eng/node/711](http://www.elite.se/eng/node/711). **BOOKINGS SHOULD BE CONFIRMED WITH THE HOTEL BY 6 SEPTEMBER.**

Single room: SEK 1250 (approx £113) per night/per person. Double room: SEK 1450 (approx £131) per night for two persons. **Please quote reference number Ghög100919 when making a booking.**

The Marina Plaza Hotel is centrally located in Helsingborg and all rooms are modernly equipped, with several having beautiful views towards the sea. Trains, ferries and car parking are all located near the hotel and shops, banks, theatres, restaurants etc are within walking distance.

## ABSTRACT BOOKLET

A set of extended abstracts will be available to all delegates on registration.

## SEMINAR DINNER

A seminar dinner will be held at the Dunkers Kulturhus on the evening of Monday, 20 September 2010.

## TOUR OF HOGANAS AB

After lunch on Tuesday, 21 September, delegates will be transported to Höganäs by coach from Helsingborg to view the Power of Powder Application Development Centre at Höganäs AB and participate in electrical vehicle test rides. Transportation will be provided back to the Marina Plaza Hotel Helsingborg where luggage can be collected prior to departure for the airport.

### MONDAY, 20 SEPTEMBER 2010

1130	<b>REGISTRATION AND LUNCH</b>
1300	<b>WELCOME /INTRODUCTION</b> Dr Glynn Atkinson, UK Magnetics Society and Lars Hultman, Höganäs AB, Sweden
1330	<b>Hybrid Drives for Commercial Vehicles</b> , Dr Mats Alaküla, Volvo Powertrain, Sweden
1400	<b>Electric Vehicle Traction Machine and Generator Design Considerations</b> , Dr Nigel Schofield, University of Manchester, School of Elec and Elec Engineering, UK
1430	<b>Somaloy® 5P – A New Generation of SMC Materials</b> , Dr Zhou Ye, Höganäs AB, Sweden
1500	<b>COFFEE</b>
1530	<b>Volvo Cars Development towards Electrification</b> , Mr Klas Niste, Volvo Cars Sweden AB, Sweden
1600	<b>Novel Halbach Permanent Magnet Machines and Applications</b> , Professor Qiang Zhu, Dept of Elec and Elec Engineering, University of Sheffield, UK
1630	<b>Latest Developments of the YASA Motor for Automotive Applications</b> , Dr Tim Woolmer, Oxford Yasa Motors, UK
1900	<b>SEMINAR DINNER AT DUNKERS KULTURHUS</b>

### TUESDAY, 21 SEPTEMBER 2010

0830	<b>Electrical Torque Vectoring Device - Challenges and Opportunities</b> , Mr Daniel Herven, Haldex, Sweden
0900	<b>Höganäs MPM Motor for Direct Drive Applications</b> , Dr Lars Sjöberg, Höganäs AB, Sweden and Dr Glynn Atkinson, University of Newcastle, UK
0930	<b>Diesel/Electric Driveline in Heavy Duty Drivelines</b> , Mr Fredrik Sidahl and Mr Viktor Lassila, BAE Systems Hägglunds AB, Sweden
1000	<b>SEMINAR CONCLUSION</b> - Dr Glynn Atkinson, UK Magnetics Society and Lars Hultman, Höganäs AB, Sweden
1015	<b>COFFEE</b>
1045	<b>TRANSPORTATION from Dunkers Kulturhus to Höganäs AB</b>
1130	<b>POWER OF POWDER Application Development Centre - Höganäs AB</b>
1300	<b>LUNCH</b>
1430	<b>DEMONSTRATION of Electrical Vehicle Test Rides</b>
1600	<b>END/TRANSPORTATION</b> from Höganäs AB to Marina Plaza Hotel, Helsingborg

