

UK Magnetics Society

UKMAG two-day seminar

HOSTED AND CO-SPONSORED BY HOGANAS AB, SWEDEN



Electrical Technology for Automotive Applications

at

Jacob Hansens Hus
Norra Storgatan 21, Helsingborg, Sweden

11-12 June 2007

PROGRAMME

The demands for improved fuel economy, comfort, functionalities as well as environmental concerns are all key drivers for the introduction of new electrical technology in the automotive sector. Existing electrical systems are constantly being improved and new systems are being developed. A clear trend is also that traditional mechanical and hydraulic systems are being replaced by electrical ones. This seminar will provide the exposure to the latest state of the art electrical developments for automotive applications. Applications based on new magnetic material options such as Soft Magnetic Composites (SMC) materials will be highlighted together with the benefits that these solutions provide in the application.

The venue for this event will be Helsingborg which is located approximately one hour from Copenhagen airport in the southern Swedish state of Skane, and it is intended to attract existing, as well as new, delegates from predominately Scandinavia and middle/northern Europe. In addition to the comprehensive papers, an SMC design workshop will be arranged, together with a visit to the production and laboratory facilities of Høganäs AB.

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SEMINAR FEE

The fixed seminar fee includes attendance at the technical sessions, abstract booklet, refreshments, evening seminar dinner on 11 June, lunch on 12 June, workshop, transport to and from Helsingborg/Hoganas and a plant tour of Hoganas AB. Accommodation costs are paid separately and are not included in the seminar fee.

SEMINAR VENUE

Jacob Hansens Hus, Norra Storgatan 21, 252 20 Helsingborg, Sweden, tel: +46 (0)42 10 54 12/042 21 56 12, fax: +46 (0)42 12 42 10, elisabet@jacobhansenshus.se, www.jacobhansenshus.se. Jacob Hansens Hus is situated in a pedestrianised area some 10 minutes by foot from the Marina Plaza Hotel (directions will be provided).

OVERNIGHT ACCOMMODATION

A block booking of overnight accommodation for the nights of Sunday 10 June, and Monday 11 June, 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/frame.aspx?p=hotell.htm. **BOOKINGS SHOULD BE CONFIRMED WITH THE HOTEL BY 20 MAY.**

Single room: SEK 1166 (approx £85) per night/per person. Double room: SEK 1322 (approx £96) per night for two persons. **Please quote reference number GHOG 070610 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 Marina Plaza Hotel on the evening of Monday, 11 June.

TOUR OF HOGANAS AB

After lunch on Tuesday, 12 June, delegates will be transported to Hoganas by coach from Helsingborg to view the production and laboratory facilities at Hoganas AB. Following the plant tour, transportation will be provided back to the Marina Plaza Hotel Helsingborg where luggage can be collected prior to departure for the airport.

MONDAY, 11 JUNE 2007

1230	REGISTRATION
1330	WELCOME /INTRODUCTION Lars Hultman and Alrik Danielsson-CEO, Hoganas AB, Sweden
1400	Hybrid Vehicle Research & Development in Sweden , Sture Eriksson, Royal Institute of Technology, Sweden
1430	Development of Highly Integrated PMG for Combined Hybrid Vehicle , Nazar Al-Khayat, Cummins Generator Technologies, UK
1500	COFFEE
1530	Advanced Design Tools for 3D Electrical Machine Design , Alex Michaelides, Vector Fields Ltd, UK
1600	Electrical Motor Concepts for Automotive Applications , Alan Jack, University of Newcastle upon Tyne, School of Elec, Elec & Computer Engineering, UK
1630	Somaloy® - a Breakthrough for Electromagnetic Design , Lars-Olov Pennander, Hoganas AB, Sweden
1700	Powder Keg® Motors with BUD® SingleSense® Electronic Control in Automotive Application , Christian Petersen, Quadrant Systems Inc, USA
1900	SEMINAR DINNER AT THE MARINA PLAZA HOTEL

TUESDAY, 12 JUNE 2007

0830	Soft Magnetic Composite Materials for Improved Diesel Fuel-Injection Performance , Keir Foster, Robert Bosch GmbH, Germany
0900	A New Motor Topology for High Performance Applications Using SMC Materials , Tim Woolmer, University of Oxford, Dept of Eng Science, UK
0930	COFFEE
1000	Development of Motor for ABS Unit , Naoki Kamiya, Aisin Seiki Co Ltd, Japan
1030	WORKSHOP
1200	LUNCH - Gastro Restaurant, Helsingborg
1330	TRANSPORTATION from Gastro Restaurant to Hoganas AB
1400	PLANT TOUR - Hoganas AB
1600	END/TRANSPORTATION from Hoganas to Marina Plaza Hotel Helsingborg

