

Invitation to a Danish-German PE:Region seminar:

## ELECTRICAL DRIVES TECHNOLOGIES IN INDUSTRIAL AND MOBILE APPLICATIONS

A growing demand for energy efficient, reliable and intelligent electrical drives technologies is stimulated by the increasing electrification of the energy systems taking place in response to the global climate challenges. Industrial and mobile applications are central in this respect due to a high energy saving potential within these fields.

This seminar provides an overview of electrical drives technologies and business development. Insights in the present research work regarding energy efficient power conversion and high speed drives are provided, and experiences from drives technology applications are presented. A visit to Danfoss Drives production facilities is included.

### PROGRAM

- 09:30 Welcome  
[Niels Gade, Danfoss Drives]
- 09:35 Introduction to seminar and the PE:Region project  
[Gustav Nebel, Sønderborg Vækstråd / Jan Cornils, WTSH]
- 09:45 Electrical Drives research at Lappeenranta University of Technology  
[Professor, D.Sc. Olli Pyrhönen, LUT School of Energy Systems]
- 10:25 Coffee break
- 10:50 Market tendencies within industrial and mobile applications  
[Mette Nordstrøm Simonsen, Danfoss Silicon Power GmbH]
- 11:20 Next steps in research on energy efficient power conversion  
[Morten Nymand, SDU]
- 11:45 Low harmonic and thermal stress control of power converters for electric drives  
[Marco Liserre, CAU]
- 12:10 Lunch
- 12:50 Danfoss Power Solutions Electrification Journey (EDITRON)  
[Thorsten Boger, Danfoss Power Solutions GmbH]
- 13:15 Automotive application: Modern auxiliary motors in electric utility vehicles  
[Henning Brodersen, MOTEG GmbH]
- 13:40 Decentral Drives in Industrial Applications  
[Dirk Boysen, Nord Drivesystems, Bargteheide]
- 14:05 Coffee break
- 14:35 Reliability centred maintenance in Drives applications  
[Jörg Dannehl, Danfoss Drives]
- 15:00 Modeling and implementation of actuator parameters  
[Jeppe Bastholm, Linak]
- 15:25 Closing remarks, conclusions and future perspectives  
[Kasper Paasch, SDU]
- 15:30 Optional visit to Danfoss Drives manufacturing facilities

#### TIME AND PLACE

28 August 2018, 09:30 – 15:30  
Danfoss Drives  
Ulsnæs 1, DK-6300 Gråsten

#### REGISTRATION

The number of participants is limited. The first come, first served principle applies. Participation is free of charge with [registration](#) before August, 14<sup>th</sup> 2018.

Further information use the [event-link](#) or contact

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The workshop is organized in cooperation between Danfoss and the PE:Region project partners:



Christian-Albrechts-Universität zu Kiel

