

Invitation to a Danish-German PE:Region seminar:

EMC IN INDUSTRIAL ELECTRONICS

Electromagnetic Compatibility (EMC) / Electromagnetic Immunity (EMI) are important technical aspects to consider when developing and manufacturing products within the industrial electronics sector.

This seminar provides an overview of EMC/EMI technical knowledge, current regulations, tests and measurement methods, and experiences from different fields of application within industrial electronics. A visit to the new 10 meter EMC chamber at Danfoss Silicon Power GmbH is included.

PROGRAM

- 09:30 Welcome
[Michael Tønnes, Danfoss Silicon Power GmbH / Kasper Paasch, SDU]
- 09:35 Introduction to seminar and the PE:Region project
[Jan Cornils, WTSH / Gustav Nebel, Sønderborg Vækstråd]
- 09:45 EMC/EMI in overview – basic principles, current state of knowledge
[Per Thåstrup Jensen, FORCE Technology]
- 10:25 Coffee break
- 10:45 Regulations and test requirements
[Carsten Möller, Treo – Labor für Umweltsimulation GmbH, Kiel]
- 11:10 Measurement methods, principles, equipment
[Tim Fink, Danfoss Drives]
- 11:35 Simulation meets Measurements
[Tilman Wittig, CST / Rohde&Schwarz]
- 12:00 Lunch
- 12:45 Laboratory visit to Danfoss Silicon Power GmbH 10 meter room
- 13:30 EMI-modelling of 3-phase boost converter
[Wai Keung Mo, Green PET:PhD project / Mads Clausen Institute, SDU]
- 13:55 Review of PWM Filters for AC Voltage Source Converters
[Remus N. Beres, Dantrafo A/S]
- 14:20 Impact of current-compensated chokes design on EMI filter performance
[Szymon Pasko, Schaffner (CH)]
- 14:45 Coffee break
- 15:05 EMC/EMI challenges in electric drives applications
[Marie Louise Hansen, Danfoss Drives]
- 15:30 Electronic product development and EMC - case with linear actuators
[Jeppe Bastholm, Linak]
- 15:55 Closing remarks, conclusions and future perspectives
[Kasper Paasch, SDU]
- 16:00 Optional: Visit to Danfoss Silicon Power clean room and production facilities
(approx. one hour)

TIME AND PLACE

27 February 2018, 09:30 – 16:00
Danfoss Silicon Power GmbH
Husumer Str. 251
D- 24941 Flensburg

REGISTRATION

Participation is free of charge with registration before 22 February via Link: [Anmelden](#) or to:

- German participants:
Joachim Bergmann,
+49 431 66 66 6-8 32,
jbergmann@wtsh.de
- Danish participants:
Gustav Nebel,
+45 3055 3165,
gune@sonderborg.dk

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



Christian-Albrechts-Universität zu Kiel

