

# Invitation to DAS & MAKUNET seminar on Acoustic Source Characterisation

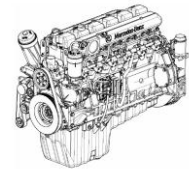
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Date & time: Wednesday the 10<sup>th</sup> of April 2013, 9.30 – 15.30  
Place: Dinex A/S, Fynsvej 39, 5500 Middelfart  
Price: 300 DDK (free admission for DAS/Makunet member and students)  
Registration: Latest 3<sup>rd</sup> of April 2013 to Kasper Steen Andersen ([ksa@dinex.dk](mailto:ksa@dinex.dk) or +45 63412607)  
Organizer: Machine acoustics comity under Danish Acoustical Society

## Background

When machinery with IC engines are developed the manufacturer focus on reducing the overall radiated noise from the vehicle including the exhaust system. The raw exhaust noise from the engine is transferred to the surrounding environment through the exhaust system and this may be described as a source and a transfer path. The transfer path is manageable to characterise, but the source characterisation is a challenge.

This seminar serves the purpose of highlighting and discussing the work being done in characterising the source in different areas but with focus on diesel engines.



600 HP Diesel engine  
for trucks and  
construction machinery

## Programme:

09.30 - 09.45: Coffee/tea

09.45 - 10.00: Welcome by Kasper Steen Andersen, Dinex

10.00 - 10.30: Dinex exhaust systems by Lars Chr. Larsen, Dinex

10.30 - 12.00: "Characterisation of fluid machines as sources of in-duct sound"  
- An overview of the field with examples from work done at KTH on IC-engines, Turbo-chargers and fans, by Mats Åbom, KTH, Stockholm, Sweden

12.00 - 12.30: "Acoustic source characterisation at Dinex" by Kasper Steen Andersen, Dinex

12.30 - 13.30: Lunch

13.30 - 14.00: "Exhaust systems for Marine applications" by Per Trøjgård Andersen, Lloyd's Register ØDS

14.00 - 15.00: Tour through Dinex Test Centre, by Mads Nygaard, Dinex  
(<http://www.oem.dinex.dk/en/technology%20center/test%20facilities> )

15.00 - 15.30: Concluding remarks



Exhaust system incl. Diesel  
particulate filter (DPF) and  
selective catalytic reduction  
catalyst (SCR)