Workshop on Exhaust Gas Emissions from Shipping

Organized by the Gothenburg Atmospheric Science Center (GAC) and the Chalmers areas of advance Transport

Date and time: February 27 between 9.00 and 16.30
Venue: Lyktan, Conference center Wallenberg, Medicinaregatan 20 A, Göteborg
http://www.gu.se/motesservice/konferenspaket/konfwall/hittahit

For registration use the following link
https://docs.google.com/forms/d/1pFNN7mpPOpcZ4oGSbV6LxPxeaNfIU-HpKSVLObiLQ/viewform?usp=send_form
or contact Ingrid Kubista (kubist@chem.gu.se)

For questions regarding the technical program contact Johan Mellqvist (johan.mellqvist@chalmers.se)

On January 1 2015 the new EU sulfur directive 2012/33/EU was put in place which dramatically will reduce the allowed fuel sulfur content of ships in northern Europe and their associated emissions. To comply with this, the ships have to switch to alternative- or low sulfur fuel or invest in abatement equipment, such as retrofitting scrubbers. It is questionable whether the shipping industry will comply, considering the high costs and little risk of getting caught and therefore it is necessary to put in place compliance monitoring to promote a level playing field. It is interesting to understand how the fuel changes or abatement technology will affect emission also other pollutants than SO₂, forinstance particles and methane and how large the remaining emission will be. The questions above will be discussed on this workshop which will include authorities, ship companies harbor operators and national and international scientist.

The conference is free of charge and it includes coffee and a lunch meal.

(In conjunction with this workshop, on February 26, Jörg Beecken will defend his thesis with the title “Remote Measurements of Gas and Particulate Matter Emissions from Individual Ships”, at 14.00 room ED, Hörsalsvägen 11)
The talks should be 20 min with 5 min questions.

8.30 Registration
9.00 Welcome introduction
Johan Mellqvist, Chalmers

Session 1: The EU sulfur directive, impact on the industry and compliance

9.10 The EU sulfur directive and compliance control, Caroline Petrini, Swedish transport agency

9.35 A ship owners view,
Claes Berglund, Stena

10.00 The port perspective,
Edvard Molitor, Port of Gothenburg

10.25 Coffee
10.55 Compliance measurements of ships from airborne and fixed stations within the Identification of Gross Polluting Ships project, Johan Mellqvist, Chalmers University of Technology

11.20 An intercomparison of different techniques for compliance monitoring, Jens Hjorth, EU Joint Research Centre ISPRA

11.45 MeSmarT, Measurement of shipping emissions in the marine troposphere, German activities. Barbara Mathieu-Uffing, University of Bremen and BSH.

12.10 Lunch

Session 2: Future emissions from shipping

13.00 Ship emissions on the Baltic sea obtained using AIS modeling, Jukka-Pekka Jalkanen, Finnish Meteorological Institute

13.25 Airborne Ship emission measurements in Finland, Heikki Lihavainen, Finnish Meteorological Institute

13.50 Particle emissions from shipping, Andreas Petzold, Research Center Jülich

14.15 On board emission measurements, Jana Moldanova, IVL Swedish Environmental Research Institute

14.40 Coffee

15.10 Preliminary results from the Big Glenn ship emission campaign, Eric S Thomson, University of Gothenburg

15.35 Ship Engine Laboratory measurements, Kent Salo/Maria Andersson, Chalmers

16.00 Concluding remarks, discussion, ALL

16.30 *The end*