Welcome to MARKIS newsletter



This is the first newsletter from MARKIS (Maritime Competence and Innovation cooperation in Skagerrak & Kattegat)

This newsletter includes information about previous and upcoming MARKIS activities and follow the project as we strive to achieve our vision of zero harmful emissions to air and water from shipping and a globally competitive maritime cluster in the Skagerrak & Kattegat region.

Over a three-year period businesses, research and education institutions and public authorities will work together to make the Skagerrak and Kattegat region a global frontrunner in the conversion to sustainable shipping.

We are always looking for more participants to our activities – hope you will be inspired to join us!

To receive our newsletter – please sign up at our website: http://www.markis.eu/newsletter/

More than 120 joined the MARKIS kickoff conference in Frederikshavn

On December 1, 2010 more than 120 participants from Norway, Finland, Sweden and Denmark took part in the

conference "Business Opportunities towards Sustainable Shipping" in Frederikshavn, Denmark.

During the afternoon the participants were introduced to a number of speakers (e.g. DNV, A.P.Moller Maersk, Wallenius Marine, Norwegian NOx Fund, Aalborg Industries, Wärtsilä Sweden, SP Technical Research Institute of Sweden etc), who focused on how environmental challenges can act as drivers for maritime innovation and business opportunities within sustainable shipping.

The workshops focused on:

- Cleaning technology
- LNG as marine fuel
- Lightweight marine structures

The conference marked the starting point of MARKIS with the vision of no harmful emissions to air and water from shipping and a globally competitive cluster in Skagerrak & Kattegat.

The themes will be followed up in new MARKIS activities as workshops, business and competence network and project cooperation. Several activities have been held or are in progress – you can read about them here in the newsletter.

You can download the notes and presentations from the kickoff meeting here: http://www.markis.eu/downloads/presentations-2010/

MARKIS annual conference & Maritime Parteniariate 2011

Book already now November 30-December 1 2011 for the conference "Towards sustainable shipping Skagerrak & Kattegat – challenges and business opportunities". The conference will be held in Uddevalla, Sweden.





For many years the Scandinavian Maritime Partenariats (B2B speed meetings) have been successfully held, and many contacts and business were established across Skagerrak & Kattegat.

We now merge the MARKIS annual conference and the Maritime Partenariate Scandinavia to develop a new annual Scandinavian forum for maritime private and public stakeholders, who want to be in the forefront of the transition to sustainable shipping.

The conference will combine seminars, workshops and B2B speed meetings –it will continue the good experiences from the maritime partenariates and address a series of highly relevant maritime issues such as:

- EU and its members states want a shift in transport from roads to sea and simultaneously reduce greenhouse gas emissions from shipping How?
- How will shipping be able to comply with SECA limits in four years?
- Alternative marine fuels where are we heading?
- Could green maritime retrofitting become a new maritime profile for Skagerak and Kattegat?

Invitation and full program will be completed in August, however, you can already register for the conference now here www.markis.eu

More information on www.markis.eu and www.maritime-partenariate.com

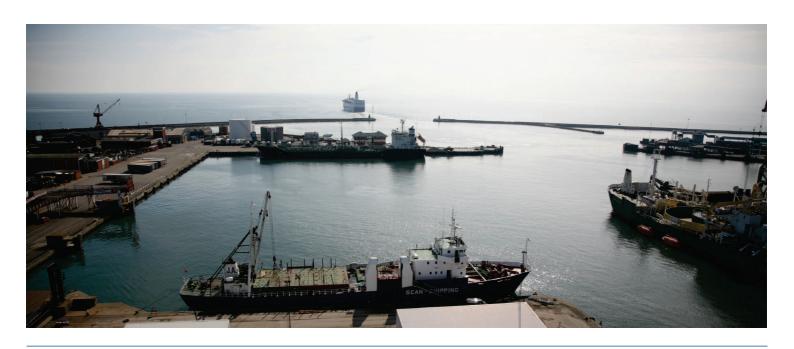
Danish and Swedish companies cooperate to build Eco Island Ferry

When three small and medium-sized Danish companies decided to participate in the MARKIS conference in Frederikshavn in December 2010, they did this primarily because they had a strong interest in working with lightweight materials in the maritime sector – one of three focus areas of the conference.

At the conference the companies met Swedish experts in this field, and quickly they found a common area of interest: Environmental and cost-effective benefits of using modern composite materials instead of traditional steel to build new ships.

During the following months several meetings in Sweden and Denmark were organized between the involved companies and several MARKIS partners, who followed the project closely. This has now resulted in a concrete project with several different objectives.

The main purpose of the Eco Island Ferry project is to deliver a valid foundation where it is possible to directly compare the lifetime costs and environmental impacts of two smaller passenger ferries built in steel and composite materials, respectively – to inspire shipowners and designers to consider building ships in modern materials, when fuel consumption and environmental impact is given a high priority. It is estimated that substantial fuel savings of up to 30% will make it possible to pay back the extra cost of investing in modern composite materials in only 5 years.







In MARKIS this project is therefore of utmost importance, as it would potentially be of benefit to the environment – and at the same time create many new jobs in our region.

The involved partners will present the Eco Island Ferry project during the MARKIS annual conference and Maritime Partenariate in Uddevalla Sweden on December 1, 2011. To read more about the project:

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40 participated in study trip to MAN Diesel & Turbo in Copenhagen

Swedish Marine Technology Forum (SMTF) arranged a study trip to MAN Diesel & Turbo in Copenhagen on 5 May 2011. As part of the Markis project, the purpose was to get an insight into the latest developments regarding marine engines and alternative fuels. Almost 40 people participated, representing about 20 different companies.

An interesting presentation was given by Rene S Laursen, Promotion Manager at MAN Copenhagen. He explained the engine design for LNG as fuel in merchant ships. A pdf-version of the presentation can be downloaded from www.smtf.se

The participants had several questions, for example about methane slip concerning LNG, and the possibility for using other fuels such as Methanol, DME or LPG. According to MAN, their two-stroke engines can be designed for LNG-operation or any of the other fuel types, if the market demands so.

After a quick lunch, the MAN production facilities were demonstrated as well as their research and test engine, now rebuilt to operate on natural gas. The visit ended at the Diesel House, where the participants were given an intense and powerful demonstration of a 22.500 HP diesel engine from 1932. Everybody seemed very satisfied with the arrangements.

Maritime education within the Kattegat & Skagerrak region

The maritime industry continuously seeks new technologies for its operation and development, as well as the need for highly competent and experienced personnel.

On 8 June 2011 MARKIS invited businesses and other representatives from the maritime sector to get an overview of the possibilities for continued training in maritime technology within the Kattegat & Skagerrak region.

MARTEC in Frederikshavn hosted the event during which both Chalmers Tekniska Högskola from Gothenburg, Högskolen I Vestfold from Tønsberg and MARTEC from Frederikshavn presented their various courses and educational options with focus on maritime environmental technology.

The purpose was to highlight the knowledge and educational capacity available in the Skagerrak & Kattegat region as well as mark the beginning of a closer cooperation between maritime training institutions in the region. MARKIS will arrange similar events in Gothenburg and Tønsberg during Autumn 2011.







Ship Emission Workshop in Gothenburg

On June 28, 2011, MARKIS will host a combined ship emission workshop in Gothenburg.

The first session will deal with Clean Shipping Index (CSI) as a follow-up on the seminar in February regarding business opportunities by CSI. Questions such as "how CSI criteria can meet new technologies for reducing air emissions" will be discussed among others. The afternoon session will focus on CO2-cleaning technology. The Norwegian research institute Tel-Tek will present its research findings on land-based CO2-cleaning and address how CO2-cleaning can be implemented in marine applications.

We expect that the workshop will attract several marine technology companies and other professionals in this area. The workshop is free of charge. The full invitation (in Swedish) can be downloaded here

http://www.markis.eu/fileadmin/Arkiv/Dokumenter/MAR-KIS_Workshop_28_June_NEW.pdf

MARKIS is a maritime competence and innovation collaboration project in the Skagerrak & Kattegat region supported by the EU INTEREG IVA Öresund-Kattegat-Skagerrak programme and 16 partners.

Over a three-year period businesses, research and education institutions and public authorities will work together to make the Skagerrak and Kattegat region a global frontrunner in the conversion to sustainable shipping.

The vision is to create a region with zero harmful emissions to air and water from shipping and a globally competitive maritime cluster.

Read more about MARKIS at: www.markis.eu



Maritime Competence and Innovation Skagerrak & Kattegat





