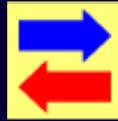




SCHOOL OF NAVAL
ARCHITECTURE &
MARINE ENGINEERING

LABORATORY FOR MARITIME TRANSPORT
NEWSLETTER No 14
July – September 2010



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Dear Reader,

The electronic newsletter of the Laboratory for Maritime Transport (LMT) of NTUA is issued regularly to inform you regarding our current and forthcoming activities. You are warmly encouraged to visit our website (www.martrans.org) for further information and to contact us about your enquiries. Your feedback will be highly valued. Kind regards...

The LMT staff

SuperGreen project update



1st regional workshop in Naples, Italy, Oct. 19, 2010

The first regional workshop of the SuperGreen project is scheduled to take place on Oct. 19, 2010 at the Nola Intermodal Terminal in Naples, Italy.

Already the Helsinki plenary workshop on June 28, 2010 was the first among a number of workshops associated with the project. The audience of that workshop consisted of logistics service providers, shippers, carriers in all surface modes, intermodal transport companies, policy makers, researchers and analysts, environmental organizations, and other stakeholders interested in green logistics.

The Naples regional workshop will entail a description of the selected corridors and of the Key Performance Indicators (KPIs) that will be used for the benchmarking task. It will also entail input from stakeholders who will participate at the workshop. Attendance in the Naples workshop is expected to exceed 80 people.

The results of the Naples workshop will be reported in our next newsletter. For the moment, you may want to mark your calendars with the next workshop in line, to be hosted by the Port of Antwerp in Antwerp, Belgium on Feb. 1, 2011.

First public deliverable of project available for download

Deliverable D2.1, Selection of Corridors, describing the methodology of pre-selecting 15 corridors and among them selecting 9 corridors for further analysis is available for download at this link:

<http://www.supergreenproject.eu/info.html>

SuperGreen in Gdansk

Mr George Panagakos of LMT attended the seminar “Impact of the EU transport policy on sustainable transport development in the Baltic Sea Region”, organized by the Gdansk Maritime Institute in Gdansk, Poland on September 16 in the framework of the TransBaltic project. He presented the SuperGreen project and the results achieved so far. He had the opportunity to exchange views on “green corridor” issues with representatives of all projects of the Swedish Green Corridor Initiative (East West Transport Corridor II, Scandria and TransBaltic) and discuss potential cooperation in the future.

SuperGreen was very well received. All speakers made reference to this project. Project results are expected with great interest, as all projects in the Baltic region plan to use the SuperGreen KPIs in their assessments. This places SuperGreen at the center of the scene, which although positive, increases the project’s responsibility for valuable output.

If you want to be kept posted, please send us an email at the SuperGreen friends email at supergreen@martrans.org.

IAME 2010

LMT participated with 3 staff members (Kontovas, Lyridis, Psaraffis) and 4 papers (see the last section of this newsletter) at the annual conference of the International Association of Maritime Economists, held on July 6-9 in Lisbon, Portugal.

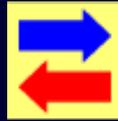


From left to right: Haakon Lindstad, Harilaos Psaraffis, Vangelis Magriou, and Dimitris Lyridis at IAME 2010



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Kos port project

On July 22, at the island of Kos, an LMT team led by Prof H.N. Psaraftis presented the results of the research project entitled “New Commercial Port of Kos - Pre Feasibility Study” in a dedicated event hosted by the Kos Port Fund, which has also been the funding organisation of the project. The Mayor of Kos, Mr. G. Kyritsis in his speech illustrated the importance of modern port infrastructures for the development of the island and thanked LMT for the successful synergy. Prof. Psaraftis in his presentation illustrated the data of historical flows of Kos port, continued with a brief description of the Analytical Network Process (ANP) methodology adapted exclusively to the needs of the project and concluded with the key results of the research. The event closed with a panel discussion and questions from the audience which showed remarkable interest.



the LMT team with Kos officials

*Back row: N.Ventikos (LMT), H.Psaraftis (LMT), G. Kyritsis (Kos Mayor),
S. Billis (Heraklidon-Kos Mayor & member of the Kos Port Fund Board)
Front row: D.Lyridis (LMT), S. Chatzinikolaou (LMT), D. Gerasklis (Kos vice Mayor)*

AIRO conference

Harilaos Psaraftis delivered one of the 4 keynote addresses at the 41st Annual conference of the Italian Operations Research Society (AIRO), held on September 7-10, 2010 in Calabria, Italy. The talk was about Green Logistics for Surface Intermodal Transport.



AIRO 2010. Luigi Moccia (University of Calabria), his wife Sandra, Gilbert Laporte (University of Montreal), and Harilaos Psaraftis

Mare Forum Marseille

Harilaos Psaraftis made a presentation provocatively entitled “Will any of the emissions reduction measures work?” at the EuroMed Management Maritime Forum, Marseille, France, on Sep. 14, 2010. Among other things, he noted that some measures, including doing nothing, will reduce GHG emissions, while others, including some actively promoted, are doubtful. He also noted that globally, ruminant livestock produce about 80 million metric tons of CH₄ annually, accounting for about 28% of global CH₄ emissions from human-related activities. Note that shipping produces some 900 million metric tons of CO₂ (2007) and CH₄ is more than 20 times more effective as a GHG than CO₂. And even if it is clear what one can do to a ship to reduce GHGs, it is less clear what one can do to a cow.

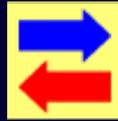


Is this green enough?



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IMO business: Market Based Measures (MBMs) for GHGs



Since last spring LMT has been involved in one of IMO's most important activities for combating Greenhouse Gases (GHGs), but thus far we were not at liberty to disclose it. An Expert Group was formed to tackle the issue of evaluating a number of proposals on Market Based Measures and Prof. Psaraftis was nominated on that group by the Greek maritime administration. Indeed, MEPC 60 last March decided to undertake a feasibility study and impact assessment of all the market-based measure proposals submitted in accordance with the work plan for further consideration of market based measures (MBMs). In order to fulfill the above, MEPC 60 requested the Secretary-General of IMO to establish an Expert Group on Feasibility Study and Impact Assessment of possible Market-based Measures.



The MEPC Expert Group on Market Based Measures

The scope of the Expert Group was to evaluate the various proposals on possible MBMs with the aim to assessing the extent to which they could assist in reducing GHG emissions from international shipping, giving priority to the maritime sectors of developing countries, least developed countries (LDC) and small islands developing states (SIDS). The Expert Group was chaired by the Chairman of the MEPC, Mr. Andreas Chrysostomou of Cyprus.

A total of eleven (11) MBM proposals were evaluated according to the following nine (9) criteria:

- 1) the environmental effectiveness, e.g. the extent to which the proposed MBM is effective in contributing to the reduction of greenhouse gas emissions from international shipping;
- 2) the cost-effectiveness of the proposed MBM and its potential impact(s) on trade and sustainable development;
- 3) the proposed MBM's potential to provide incentives to technological change and innovation – and the accommodation of current emission reduction and energy efficiency technologies;
- 4) the practical feasibility of implementing the proposed MBM;
- 5) the need for technology transfer to, and capacity building within, developing countries, in particular the least developed countries (LDCs) and the small island developing states (SIDS), in relation to implementation and enforcement of the proposed MBM, including the potential to mobilize climate change finance for mitigation and adaptation actions;
- 6) the MBM proposal's relation with other relevant conventions such as UNFCCC, Kyoto Protocol and WTO, as well as its compatibility with customary international law, as depicted in UNCLOS;
- 7) the potential additional administrative burden, and the legal aspects for National Administrations by implementing and enforcing the proposed MBM;
- 8) the potential additional workload, economic burden and operational impact for individual ships, the shipping industry and the maritime sector as a whole, of implementing the proposed MBM; and
- 9) the MBM's compatibility with the existing enforcement and control provisions under the IMO legal framework.

After several months of deliberations and three meetings, the Expert Group submitted and presented its report to MEPC 61, held in London Sep. 27- Oct. 1, 2010. This report can be downloaded from the LMT web site using this link:

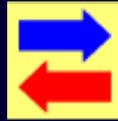
<http://www.martrans.org/lemis.htm> (check out No. 15)

The issue of MBMs is not closed and will be further taken up by an intersessional Working Group meeting next spring and by MEPC 62 next summer. More details on MBMs will be



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presented in our next newsletter or in a special newflash before that.

IMO business: FSA (environmental criteria)



LMT continued its involvement in the work of MEPC as regards environmental risk evaluation criteria in Formal Safety Assessment. In document MEPC 61/18/2, submitted by Greece, Kontovas, Psaraftis, and Ventikos presented further experience with non-linear oil spill cost functions, by testing these functions with US spill data. It is expected that a Working Group will be formed at MEPC 62 (July 2011) to make further progress on this issue. LMT's involvement with this topic at IMO has started in 2007 and relevant documents can be found at this web link:
<http://www.martrans.org/limo.htm>

Meetings and Events

attended by LMT staff

- 2010 Annual Conference of the International Association of Maritime Economists (IAME), Lisbon, Portugal, July 7-9
- 41st Annual conference of the Italian Operations Research Society (AIRO), Villa San Giovanni, Italy, September 7-10
- EuroMed Management Maritime Forum, Marseille, France, September 14
- "Impact of the EU transport policy on sustainable transport development in the Baltic Sea Region" seminar in the framework of the TransBaltic project, organized by the Gdansk Maritime Institute, Gdansk, Poland, September 16
- 61th session of the Marine Environment Protection Committee (MEPC 61), International Maritime Organization, London, UK, September 27 - October 1

Papers, presentations and speeches published / presented by LMT staff

- Gkonis, K.G. and H.N. Psaraftis (2010), "Container transportation as an Interdependent Security problem", Journal of Transportation Security, in press, DOI 10.1007/s12198-010-0047-y, published online first at: <http://www.springerlink.com/content/120909/?Content+Status=Accepted>
- Gkonis, K.G., H.N.Psaraftis, and N.P.Ventikos (2010), "Modelling Security Aspects of Merchant Shipping: a Piracy setting", IAME 2010 Conference Proceedings, July 7-9, Lisbon, Portugal
- Kontovas, C.A. and H.N. Psaraftis, (2010), "Reduction of Emissions Along the Intermodal Container Chain", IAME 2010 Conference Proceedings, July 7-9, Lisbon, Portugal
- Kontovas, C.A., Psaraftis, H.N., Ventikos N. (2010), "An Empirical Analysis of IOPCF Oil Spill Cost Data", Marine Pollution Bulletin, 60:9, pp.1455-1466
- Psaraftis, H.N. (2010), "Green Logistics for Surface Intermodal Transport", invited keynote address, 41st Annual conference of the Italian Operations Research Society (AIRO), September 7-10, Villa San Giovanni, Italy
- Psaraftis, H.N. (2010), "Will any of the emissions reduction measure work?" invited presentation, EuroMed Management Maritime Forum, September 14, Marseille, France
- Psaraftis, H.N. and A. Pallis (2010), "Concession of the Piraeus Container Terminal: Turbulent times and the quest for competitiveness", IAME 2010 Conference Proceedings, July 7-9, Lisbon, Portugal
- Zagkas, V.K. and D.V. Lyridis (2010), "Maritime Clusters: A temporary trend or a sustainable tool for the development of the maritime industry?", IAME 2010 Conference Proceedings, July 7-9, Lisbon, Portugal