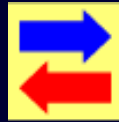




SCHOOL OF NAVAL
ARCHITECTURE &
MARINE ENGINEERING

LABORATORY FOR MARITIME TRANSPORT
NEWSLETTER No 12
January – March 2010



<http://www.martrans.org>



N.T.U.A.
NATIONAL TECHNICAL
UNIVERSITY OF ATHENS

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 kick-off meeting held in Athens



The kick-off meeting of new EU project SuperGreen took place in Athens on February 2nd and 3rd, 2010. The

official title of the project is "Supporting EU's Freight Transport Logistics Action Plan on Green Corridors Issues". SuperGreen is a Coordination and Support Action, co-funded by the European

Commission in the context of the 7th Framework Programme for Research and Technological Development, and coordinated by NTUA LMT, with Professor Harilaos Psaraftis assuming the role of Project Manager. The project involves 22 partners from 13 European countries. These include transport, logistics and infrastructure operators, shippers, environmental organisations and authorities responsible for social and spatial planning, consultants, academia and R&D. Altogether, they committed to mobilise resources of more than 3 million Euros over the next three years, with the European Commission contributing on the order of 2.6 million Euros.

SuperGreen aims to assist the Commission with defining the 'Green Corridor' concept, which still needs to be developed. It is also about supporting the development of sustainable transport networks by fulfilling requirements covering environmental, technical, economic, social and spatial planning aspects. SuperGreen will evaluate a set of freight transport corridors with good greening potential, covering representative regions and main transport routes throughout Europe. In order to reach its goals, the project will develop a methodology for the benchmarking of Green Corridors and identifying areas of potential improvements, including the analysis of innovative technologies, the definition of more efficient ways to exploit Information and Communication Technologies ICT-flows, recommendations for future Research & Development and the analysis of implications on related EU policies. The mentioned activities will be based on

the pre-selection of a number of corridors, partially covering the current TEN-T, and/or based on cases relevant to industrial project partners.

During the kick off meeting, the topic of Green Corridors was addressed presenting the perspective of the European Commission (Project Officer Mr Rein Jürjado, EC DG-TREN), logistics service providers represented by DB Schenker (Ms Andrea Schön) and industrial partners represented by Procter & Gamble (Mr Sergio Barbarino); furthermore, the Port Authority of Gijon (Mr Humberto Moyano) introduced the activities launched for greening the Madrid-Paris corridor.

People and/or organizations interested in this project can send an email to supergreen@martrans.org or look at the project's web site at www.supergreenproject.eu.



From left to right: Anders Sjöbris, Jorge D' Almeida, Sara Fozza, Valerio Recagno, and Aud Marit Wahl at the SuperGreen kick-off dinner.

One day in Venice



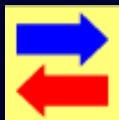
Prof. Psaraftis made a brief trip to Venice in early February, to participate in a meeting in the context of the peer review report presented by the port management.

A discussion with various port stakeholders took place. The meeting was hosted by Prof. Paolo Costa, President of the port authority of Venice, and in addition to Prof. Psaraftis, Messrs. Manfred Reuter of the Hamburg port authority and Honoré Paelinck of Antwerp also attended.



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LMT teams up with WWF Hellas

On February 18 2010, LMT signed a memorandum of cooperation with WWF Hellas in the context of enhancing safety and environmental friendliness of shipping in Greek waters. LMT and WWFH will cooperate on issues of prevention of marine accidents and mitigation of their consequences, including pollution related incidents (e.g. oil spills) from ships. In particular, the cooperation initially will focus on the development of a comprehensive document / leaflet capable to provide an overall picture of maritime transport and of its dangers in Greece and equally promote some dedicated solutions for the recorded problems. The future oil pipeline from Burgas to Alexandroupolis and the effort of setting an operational framework for the protection of the marine and littoral environment in the Aegean Sea is another field of cooperation between the two parties.

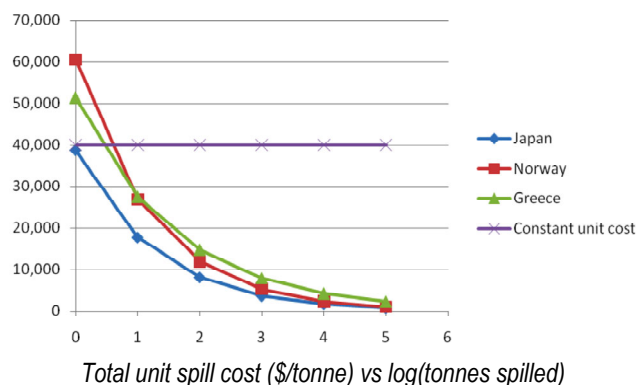


*Prof. Psarftis
and the
Managing
Director of WWF
Hellas Mr. D.
Karavellas,
signing the
memorandum.*

IMO Business: MEPC 60

LMT's involvement in the work of IMO's 60th session of the Marine Environment Protection Committee (MEPC 60, London, March 22-26, 2010) was twofold: First, a Working Group (WG) on the subject of Environmental Risk Evaluation Criteria in the context of Formal Safety Assessment (FSA) met under the chairmanship of Prof. Psarftis. Delegates from some 20 member states and 8 non-governmental organizations attended. The WG was tasked to recommend cost-effectiveness criteria for the subject of oil pollution. To that effect, the group reiterated the previous views expressed by successive correspondence groups that environmental risk evaluation criteria should be expressed on a "cost per volume of spilled oil" basis. Following extensive discussion as to what type of total spill cost function should be used, a majority of the members of the Group agreed that a non-linear function is more justifiable by the available data, with some other Group members supporting a constant total spill cost per tonne, and

some other members not being able to take a position on this issue.



Interestingly enough, among three non-linear total spill cost functions on the table, the WG proposed, and MEPC 60 agreed, to use as basis the one produced by Greece, as being the most conservative. It turns out that the Greek function was produced by LMT staff (Kontovas, Psarftis, Ventikos), after regression analysis of International Oil Pollution Compensation Fund (IOPC) data. To that effect, member governments or interested organizations having their own additional data, were invited to verify, and adjust as necessary the Greek regression formula by incorporating their additional (chosen) data in the analysis. In this connection, MEPC 60 agreed to invite the interested stakeholders to submit their data for each cost component (see working definitions) and the results of their analysis for consideration. Also, MEPC 60 agreed to invite member governments and interested organizations to use the non-linear cost function in FSA studies with a view to gain experience with its application and provide information to IMO which may help to improve the proposed functions.

Progress was also made on related issues, including the definition of Frequency and Severity Matrices.

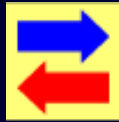
This Working Group is expected to meet again at MEPC 62 in mid-2011, to allow time for parties to attempt to collect relevant data, and verify and adjust as necessary, the regression formula proposed by Greece.

The second involvement of LMT into MEPC 60 business was as regards Green House Gas (GHG) emissions matters: In fact, three submissions by Greece on the so-called Energy Efficiency Design Index (EEDI) had substantial input from LMT. We will report on the critical issue of GHG emissions as regards the IMO in a future issue of this newsletter.



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Kuopio meeting in March paves the way to Helsinki workshop in June

On March 30, several SuperGreen partners met at the premises of partner Sito in snow-infested Kuopio, Finland, for a critical discussion on the pre-selection of some 15 European corridors with good greening potential. Such pre-selection was based partly on the current TEN-T and was made according to the criteria such as transport volumes, average length of transport chains (share of long distance transports), existing transport infrastructure, types of transported goods, multimodality, effects on environment, human habitat and land use planning, geographical preconditions (cases covering different preconditions), used transport and information technology, supply chain management strategies and procedures of main transport clients and other relevant criteria. Modal-wise, the mix of corridors that were pre-selected included:

- Land-based corridors
- Corridors (short sea-road-rail-intermodal) that are alternatives to road
- Corridors (deep sea- road- rail-intermodal) with non-European trade partners

Geographical coverage of corridors includes:

- The Iberian and/or Italian peninsula
- Scandinavia
- Inter-Mediterranean
- Corridors linking Scandinavia with the Baltic countries, Poland and Germany
- Hamburg- Le Havre range
- Corridors between UK and continent
- Corridors between the Balkans and Central Europe
- Corridors between EU and Russia
- Deep sea corridors (Far East and North America to Europe)



Walking to work in Kuopio

Details on these corridors, on the Key Performance Indicators (KPIs) that will be used for benchmarking and on other work on this project will be presented at an open workshop that will be held in Helsinki on June 28, 2010. The target audience of the workshop includes logistics providers, shippers, carriers in all surface modes, intermodal transport companies, policy makers, researchers and analysts, environmental organizations, other stakeholders interested in green logistics.

Registration for this event is already open and interested people are invited to register via the project's web site at www.supergreenproject.eu. Weather in Helsinki in late June is expected to be much better than that of Kuopio in March, so we certainly look forward to seeing many of you there!

Meetings and Events attended by LMT staff

- SuperGreen project kickoff meeting, Athens, Greece, Feb. 2-3
- NTUA-ABS project meeting, Athens, Greece, Feb. 5
- Port of Venice peer review meeting, Venice, Italy, Feb. 9
- NTUA-DNV project meeting, Athens, Greece, Feb. 11
- "Developments in the Energy Sector in Greece and South East Europe" Conference, Institute of Energy for South East Europe, Athens, Greece, Feb. 23
- IMO MEPC 60 meeting, London, UK, March 22-26
- "Energy: present situation, planning and prospects" Conference, Technical Chamber of Greece, Athens, Greece, March 8-10
- SuperGreen project WP2 meeting, Kuopio, Finland, March 30
- "Piracy in the Gulf of Aden" Public Discussion at Eugenides Foundation organised by the Hellenic Chamber of Shipping, Athens, Greece, March 30.

Papers, presentations and speeches published / presented by LMT staff

- K.G.Gkonis (2010), "Liquefied Natural Gas as an energy source for the Greek and international markets", presentation at the "Energy Conference" organised by the Technical Chamber of Greece, Athens, Greece, March 8 (in Greek).