



The Second LRF-NTUA Centre of Excellence Workshop on Ship Total Energy-Emissions-Economy

Date: 13 February 2015

Venue: Auditorium, Euronav Ship Management (Hellas) Ltd.
Dimitra Building, Ground Floor, Akti Miaouli 69, Piraeus

Programme

- 15:00 – 15:30 Arrival and registration
- 15:30 – 15:35 Short address by the Dean of the School, Prof. K. Spyrou
- 15:35 – 15:50 G. Maglaras, LR, Representative of LRF:
Welcome address – Introduction to LRF
- 15:50 – 16:00 Ch. Frangopoulos: *An Introduction to the Centre of Excellence in Ship Total Energy-Emissions-Economy*

Session 1: Improvement of Marine Engines Fuel Consumption and Emissions

- 16:00 – 16:15 N. Kyrtatos: *A variable path exhaust gas experimental prototype aftertreatment system for marine engines.*
- 16:15 – 16:30 G. Papalambrou: *A hybrid diesel-electric powerplant test bed. Experiments on optimal operation at variable load.*
- 16:30 – 16:45 N. Vrettakos: *A turbocharger component surge model. Theory and experimental validation.*
- 16:45 – 17:00 G. Papalambrou: *Compressed air injection in the intake manifold of a diesel engine to improve transient load uptake. Experimental investigation.*
- 17:00 – 17:15 D. Kazangas, P. Kontoulis and L. Kaiktsis: *Effects of low sulfur marine fuels on marine engine emissions and chemistry reduction studies with respect to methane combustion.*
- 17:15 – 17:45 *Coffee break*

Session 2: Macro-level Approaches for Reduction of Ship Emissions

- 17:45 – 18:00 S. Hatzinikolaou, N. Ventikos: *Elements of external costs of ship emissions at port.*
- 17:45 – 18:00 G. Panagakos, H. Psaraftis: *Monitoring, Reporting and Verification (MRV): the quest for environmental information in maritime transport.*



18:15 – 18:30 E. Stamatopoulou: *Tracking and tracing for reduced port time and emissions.*

18:30 – 18:45 G. Kapetanis: *The concept of synchro-modality and how it may help reduce emissions: a case study for the Piraeus container terminal.*

18:45 – 19:45 **Panel Discussion: *Ship Total Energy-Emissions-Economy in view of fluctuating fuel prices***

Panellists:

N. Kyrtatos, NTUA, Rapporteur: Technology Area

H. Psaraftis, NTUA, Rapporteur: Economy Area

G. Maglaras, LR, Panel Member

E. Boletis, Wärtsilä, Propulsion R&D, Panel Member

S. Bourboulis, EURONAV, Panel Member

P. Zachariadis, Atlantic Bulk Carrier Management Ltd., Panel Member

Ch. Frangopoulos, NTUA: Moderator

19:45 – 20:30 ***Light buffet***