# Multi-year Expert Meeting On Transport and Trade Facilitation:

# Maritime Transport and the Climate Change Challenge

16-18 February 2009

# Potential Approaches to Mitigation in Maritime Transport

The work of the IMO's Marine Environment Protection Committee (MEPC)

Presentation by

Mr. Andreas I. Chrysostomou Chairman (MEPC)

This expert paper is reproduced by the UNCTAD secretariat in the form and language in which it has been received. The views expressed are those of the author and do not necessarily reflect the view of the United Nations.

### EXPERT MEETING ON TRANSPORT AND TRADE FACILITATION: MARITIME TRANSPORT AND THE CLIMATE CHALLENGE

Potential Approaches to Mitigation in Maritime Transport

The work of the IMO's Marine Environment Protection Committee (MEPC)

Andreas I. Chrysostomou
Chairman (MEPC)

#### **Technical and Operational Measures**

- · Energy Efficiency Design Index for new ships
- Energy Efficiency Operational Index
- · Efficiency Management Plan suitable for all ships
- · A voluntary code on best practice in energy efficient ship operations
- · Associate Guidelines

The Committee approved the usage of the draft Interim Guidelines on the method of calculation of the Energy Efficiency Design Index for new ships, for calculation/trial purposes with a view to further refinement and improvement.

#### THE ENERGY EFFICIENCY DESIGN INDEX FOR NEW SHIPS

The design index will contain a required minimum level of fuel efficiency related to a baseline, the actual minimum level, and the frequency with which the limit will be tightened, are among the matters that will be considered at a later stage. The design index is avoiding the so-called "paragraph ships", meaning future ship designs optimized for certain conditions but which do not actually deliver greater fuel efficiency. The different correction factors to make the formula relevant for all ship types were given extensive consideration, as was verification of the design index, as there might not be a Flag state dedicated to the ship at the design stage.

#### THE ENERGY EFFICIENCY OPERATIONAL INDEX

The interim operational index has been used to establish a common approach for trials on voluntary CO2 emission indexing, enabling shipowners and operators to evaluate the performance of their fleet with regard to CO2 emissions. As the amount of CO2 emitted from a ship is directly related to the consumption of fuel oil, CO2 indexing also provides useful information on a ship's performance with regard to fuel efficiency.

### **MARKET BASED SOLUTIONS**

- A global levy on fuel used by international shipping.
- A possible introduction of emission trading schemes for ships (ETS)