

2009



SHIP EFFICIENCY

by STG

2nd International Conference

Hamburg, 28 – 29 September 2009

www.ship-efficiency.org

Costs and emissions → How to make ships more efficient



The German Society for Maritime Technology
Schiffbautechnische Gesellschaft e.V.

2nd Ship Efficiency Conference 2009

We invite you to attend the second conference on one of the key issues for the future of shipping: ship efficiency. Why is efficiency so important? In an industry characterised by increasingly keen competition on a global scale, the key to survival is designing, building and operating ships efficiently. An efficient ship is profitable and environmentally compatible. The aim of Ship Efficiency is to create a forum where all stakeholders learn from each other and return home with plenty of fresh ideas and practical solutions. The conference generally addresses the following topics:

How to improve the efficiency of shipping operations

How to increase a ship's profitability

To register and to be kept updated on programme details and speakers, go to www.ship-efficiency.org

Impressions from the 1st Conference 2007

More than 150 participants from all over the world attended the first conference.





The Conference Programme is structured as follows:

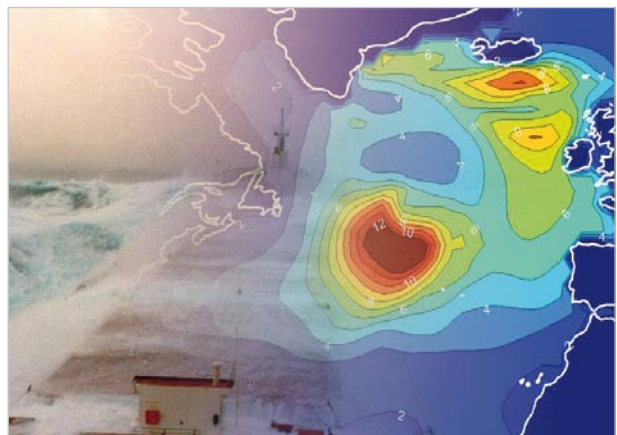
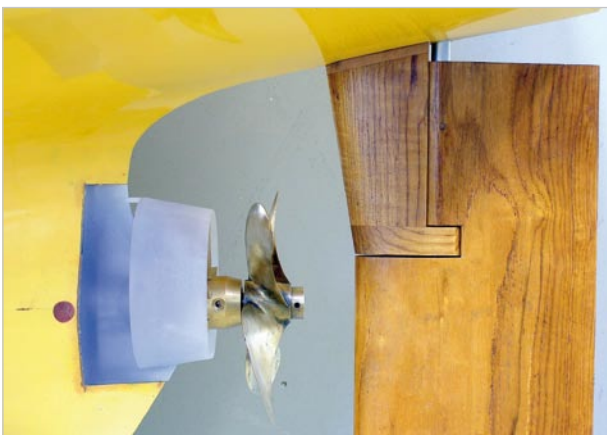
Ship Operation and Ship Design

- **Fuel Efficiency versus Safety in Ship Design (FSG, D)**
How much fuel is safety allowed to cost?, main dimension restrictions, optimization for various operational conditions
- **Energy Efficiency Design Index – EEDI (TUHH, D)**
Principles, base line definitions, application consequences
- **Cost Savings by Hydrodynamic Measures (Grieg Shipping Group, N)**
Reduction of speed, trim optimization, power saving devices incl. new developed pre-swirl duct
- **Summary of the A. P. Møller-Mærsk Energy Efficiency Initiatives (DK) – Ship design, retrofit, performance management, operational optimization**
- **Cost Efficient Ship Operation (DNV, N)**
Voyage planning, bunker management, hydrodynamics, management and organizational aspects
- **Reduction of Operation Costs (FutureShip, D)**
Saving potentials in resistance, propulsion, main engine, auxiliaries and other onboard consumers
- **CO₂ Maintenance Index (Propulsion Dynamics, USA)**
Intervals for hull/propeller, spot blast versus full-blasting, coating systems, effect of wake ducts/propeller caps etc.
- **Ship Service Performance (MARIN, NL)**
Measurement parameters, analyses, fouling, fuel saving, trim optimization, power-saving devices, reduction of speed

- **Shipboard Weather Routing – Operational Benefits (GL, D)**
Prevention of damages, hull response monitoring, efficient ship scheduling, experience and further development
- **Increased Efficiency by Crew Training Simulation (MTC, D)**

Future Fuels and Efficient Power

- **Gaseous Fuels – Operational Aspects (Wärtsilä, FIN)**
Dual fuel versus pure gas engines, efficiency and emission aspects, cold ironing versus gas driven engines
- **Gaseous Fuels – Safety Aspects (BV, F)**
Safe operations of gas engines, risk analyses, rules and regulations
- **Use of Wind Energy (SkySails, D)**
Potential of Sky Sail system, first operational result, future developments
- **4 Stroke Engines – Efficiency and Emissions (Cat, USA)**
New developments, NOX reduction, exhaust gas treatment
- **2 Stroke Engines – Efficiency and Emissions (MAN, D)**
New developments, gaseous fuel and low sulfur aspects
- **Energy Efficient Engine Room Ventilation (Witt & Sohn, D)**
- **Heavy Fuel Oil Additive Options (Neo Petcon, India)**



Conference Language: English

Venue: Hotel Hafen Hamburg (www.hotel-hafen-hamburg.de)

Special Hotel Rates: If booked prior to August 21 at
Hotel Hafen Hamburg (STG-HH-240909)
Madison Hotel Hamburg (STG Ship Efficiency)
Maritim Hotel Reichshof (STG-HH)
Empire Riverside (Ship Efficiency280909)
Hafentor (STG)
Lindner (Ship Efficiency 2009)
Please quote booking code (in brackets above) when booking.
For booking and rates, see [www. ship-efficiency.org](http://www.ship-efficiency.org)

Programme:

September 28

9:00 – 10:00 Registration, Welcome
10:00 – 13:00 Papers on Ship Operation and Ship Design
13:00 – 14:30 Lunch
14:30 – 17:30 Papers on Ship Operation and Ship Design (cont'd)
19:00 Conference dinner with keynote speaker

September 29

9:00 – 13:00 Papers on Future Fuels and Efficient Power
13:00 – 14:30 Farewell buffet

Conference Fees:	If booked prior to August 21	Full fee
Participants*	€ 650	€ 750
STG-Members	€ 500	€ 600
Members of RINA/SNAME/JASNAOE/SNAK	€ 500	€ 600
IMarEST/SSNAME/IME/HIMT		
Students/Pensioners (STG members only)	€ 100	€ 100

* STG membership can be applied for online

The conference fee includes proceedings on a CD, admittance at all technical sessions, lunches and refreshments, conference dinner and farewell buffet.