



# PROGRAMME

International Research Conference on

## Short Sea Shipping 2012

April 2-3, 2012 | Estoril - Portugal

“Five continents - different perspectives - one objective: to move cargo by sea”



On behalf of Cargo Edições Lda, I am honoured to invite the International Research Community, the Industry, International Organizations and Governments to the International Research Conference on Short Sea Shipping to be held in April 2012, in Portugal. The focus on short sea shipping (formerly known as international cabotage, international coastal trade or international coastal shipping), and often defined as the movement of freight by sea without crossing an ocean, i.e. within the same continent, rests upon its importance and attention given at a policy level for the last twenty years.

After the European Commission released its Communication on the Common Transport Policy in December 1992, the subject under consideration has promoted much debate, to the extent that other regions of the world such as the United States/Canada, Australia, Asia, New Zealand are considering it at a policy level as well. In 2008, at an European level, short sea shipping accounted for 36,6% of all intra-European freight and according to the 1992 Commission Communication there is a potential market share of 14% that short sea shipping can grasp from long distance road transport.

As a result, numerous research projects have been funded at regional and national levels to find out solutions that promote this 'mode of transport' as a viable alternative to road transport and that contribute to its integration within multimodal/intermodal transport chains. Within this context, numerous meetings, workshops and conferences of a regional character have been organised to discuss and disseminate information and research work.

Against this geographical scope, the present Conference aims at covering the whole world so as to become an international forum / research platform for the exchange of research information and knowledge among those interested in this 'mode of transport' / research area and related issues. This provides a unique opportunity to see how our neighbouring countries and regions are approaching this 'mode of transport' and what lessons can be learnt. Moreover, an international Conference as it is proposed is a valuable event for young researchers, students and newcomers to the industry since it provides the opportunity to interact with more senior and experienced researchers and practitioners.

As such, the international character of the Conference has fostered its theme to be "Five continents – different perspectives – one objective: to move cargo by sea". While filling the existing gap from a geographical perspective, it builds upon the body of knowledge and research carried out so far and presented in the regional meetings, at encouraging ongoing international information exchange, at strengthening the regional network, at building knowledge upon difference of opinion and experience, and fostering exchange of expertise and learning through active participation of community representatives, academia, governments, private research agencies and national research centres. Numerous topics have been identified to meet this objective and any gap left is more than welcomed to be addressed and the outcome of this work will be published in the Conference Proceedings.

The Conference scientific program will follow the traditional layout of other research related conferences and details about the Conference deadlines can be seen here. Apart from the working sessions, there will always be opportunity for people to get together, to exploit networking opportunities, and eventually, to relax before a new working period starts again. We believe that the Conference comes up as a unique opportunity and we welcome the International Research Community, the Industry, International Organizations and Governments to discuss and suggest solutions that contribute to a better performing competitiveness environmentally friendly sector vis-à-vis road transport.

Welcome to Lisbon, Portugal

Ana Cristina Paixão Casaca  
Conference Chair  
Operational Director of ESPRIM



It is with great pleasure that Cargo Edições organizes the 2012 International Research Conference on Short Sea Shipping, in Lisbon, Portugal, and in this regard I take this opportunity to thank the numerous people working with us to organize such an important event.

In the name of the organization of this shipping and port international conference to be held in Portugal, let me say that we are proud that our humble contribution will foster the development of the shipping and port sectors at a local, regional and international levels.

We welcome all delegates belonging to International Research Community, the Industry, International Organizations and Governments to the 2012 International Research Conference on Short Sea Shipping, and we are at your disposal to assist you with any information that you may need for you to come to this conference and during your stay in Portugal.

Your feedback will also be very important so that we can improve our performance, today or, if possible, in a future conference. We wish that your stay is so good that you will always feel the need to come back to this country, which in previous times gave an enormous contribute to the development of the world.

We are sure that the programme to be offered will meet your expectations and the continuous success of previous conferences. The conference provides an excellent opportunity for experts from the International Research Community, the Industry, International Organizations and Governments to meet and exchange ideas and promises to be exciting and stimulating due to the wide range of topics of direct interest and relevance to the industry as presented in the Call for Papers Invitation.

The Local Organisation Committee has been working hard in order to gather in Lisbon high standard Speakers and we trust your visit to this Conference proves worthwhile and rewarding; its success clearly indicates that we work in an exciting, useful, and extremely active area.

We wish you all a pleasant and memorable conference experience.

Welcome to Lisbon, Portugal

Luís Filipe Duarte  
Managing Director  
Cargo Edições

## Local Organizing Committee

The 2012 International Research Conference on Short Sea Shipping LOC is responsible for handling all administrative, organisational and financial tasks related with the preparation, execution and closure of the conference.

*Ana Cristina Casaca (Operational Director of ESPRIM)*

*Irene Rosberg (Programme Director, Copenhagen Business School)*

*Luís Filipe Duarte (Director of Cargo Edições)*

*Manuel do Nascimento Casaca (Port Consultant)*

*Mário Oliveira (Cargo Edições Consultant)*

*Sónia Carvalho (Cargo Edições)*

*Susana Rebocho (Marketing, Cargo Edições)*

## Venue

The Conference is to take place in Estoril, one of the beautiful Lisbon surroundings which is about 30 km from the airport, and is close to the main junction of the main accesses to Lisbon-Cascais. The place has very good transport links and has good conditions to guarantee the success of the event. Delegates to the Conference may stay at hotels in Estoril or nearby in Cascais; there is a good rail connection between Estoril and Cascais but you can always travel by taxi. Cost of taxi is still reasonable in Portugal.

Conference Hotel in Estoril is:

### Palácio Estoril Hotel

Rua Particular - 2769-504 Estoril

PORTUGAL

Phone: + 351 21 464 8000

Fax: + 351 21 464 8159

E-mail: [info@nosspamhotelestorilpalacio.pt](mailto:info@nosspamhotelestorilpalacio.pt)

Coordinates (GPS) Lat. 38°704736' Long. -9°396636'

## International Steering Committee

The following Members are part of the International Steering Committee:

*Professor A. Güldem Cerit*

*Professor Akio Imai*

*Professor Chin-Shan Lu*

*Professor Floriano Pires*

*Professor Harilaos N. Psarftis*

*Dr. Heather Leggate McLaughlin*

*Professor Hercules Haralambides*

*Mr. Julian J. Flores (Vice-President)*

*Professor Kevin Cullinane*

*Mr. Lars Karlsson (CEO)*

*Professor Mary Brooks*

*Professor Michael Roe*

*Mr. Patrik Rydén (CEO)*

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*Professor Peter B. Marlow*

*Professor Sophia Everett*

*Professor Stein Erik Grønland*

*Professor Theo Notteboom*

*Professor Wayne Talley*

*Dr Y. H. Venus Lun*

*Dokuz Eylül University*

*Kobe University*

*National Cheng Kung University*

*Rio de Janeiro Federal University*

*National Technical University of Athens*

*Editor of Maritime Policy and Management*

*Erasmus University Rotterdam*

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*Old Dominion University*

*Hong Kong Polytechnic University*

*Turkey*

*Japan*

*Taiwan*

*Brazil*

*Greece*

*United Kingdom*

*Netherlands*

*United States*

*United Kingdom*

*Sweden*

*Canada*

*United Kingdom*

*Sweden*

*Taiwan*

*United Kingdom*

*Australia*

*Norway*

*Belgium*

*United States*

*Hong Kong*

## Paper Review Committee

Under the chair of Irene Rosberg, Programme Director of the Blue MBA in Shipping and Logistics of the Copenhagen Business School, the following Members are part of the International Paper Review Committee:

*Akio Imai, Kobe University, Japan*

*Aldo McLean, University of Tennessee at Chattanooga, United States*

*Alexander Goulielmos, University of Piraeus, Greece*

*Alga Foschi, University of Pisa, Italy*

*Athanasios Pallis, University of the Aegean, Greece*

*Brian Slack, Concordia University, Canada*

*Cândida Mourão, Instituto Superior de Economia e Gestão (UTL), CIO, Portugal*

*Chin-Shan Lu, National Cheng Kung University, Taiwan*

*Claude Comtois, Montréal University, Canada*

*Cláudio Soares, Universidade Federal do Rio de Janeiro, Brasil*

*Dimitrios V. Lyridis, National Technical University of Athens, Greece*

*Dmitry Kosyak, Containerships Ltd Oy, Russia*

*Dong-Wook Song, Heriot-Watt University, United Kingdom*

*Florian Carlos Martins Pires Junior, Rio de Janeiro Federal University, Brasil*

*Gordon Wilmsmeier, Edinburgh Napier University, United Kingdom and UNECLAC Natural Resources and Infrastructure, Chile*

*Guldem Cerit, Dokuz Eylul University, Turkey*

*Harilaos Psaraffis, National Technical University of Athens, Greece*

*Heather L. McLaughlin, Canterbury Christ Church University, United Kingdom*

*Helen Thanopoulou, University of the Aegean, Greece*

*Ilias Visvikis, ALBA Graduate Business School, Greece*

*Ioannis Theotokas, University of the Aegean, Greece*

*Jafar Sayareh, Chabahar Maritime University, Iran*

*Jan Hoffmann, United Nations Conference on Trade and Development, Switzerland*

*Jean-Paul Rodrigue, Hofstra University, United States*

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*Nikitas Nikitakos, University of the Aegean, Greece*

*Nikolaos Ventikos, National Technical University of Athens, Greece*

*Nikos Nomikos, Cass Business School, United Kingdom*

*Orestis Schinas, HSBA Hamburg School of Business Administration, Germany*

*Paul Tae-Woo Lee, Kainan University, Taiwan*

*Peter Marlow, Cardiff University, United Kingdom*

*Photis Panayides, Cyprus University of Technology, Cyprus*

*Pierre Cariou, Euromed Management, France*

*Poul Andersen, Technical University of Denmark, Denmark*

*Ricardo Sanchez, United Nations Economic Commission for Latin America and the Caribbean, Chile*

*Sheila Farrell, Imperial College London, United Kingdom*

*Stephen Cahoon, Australian Maritime College, Australia*

*Stephen Pettit, Cardiff University, United Kingdom*

*Stig Tenold, Norwegian School of Economics, Norway*

*Theo Notteboom, University of Antwerp, Belgium*

*Thomas Pawlik, Hochschule Bremen, Germany*

*Ulla Tapaninen, University of Turku, Finland*

*Venus Lun, The Hong Kong Polytechnic University, Hong Kong (China)*

*Wayne K. Talley, Old Dominion University, United States*

*William E. Biles, University of Louisville, United States*

*William Sjostrom, National University of Ireland, Ireland*

|               |  |   |   |  |
|---------------|--|---|---|--|
| 07.30 - 09.00 | Registration   |   |   |  |
| 09.00 - 10.30 | Opening Ceremony   |   |   |  |
|               | <b>Welcome Speech</b>  |   |   |  |
|               | Dr. Ana Casaca, Chairman of the 2012 International Research Conference on Short Sea Shipping   |   |   |  |
|               | <b>Welcome Speech</b>  |   |   |  |
|               | Mr. Luís Filipe Duarte, CARGO EDIÇÕES Managing Director  |   |   |  |
|               | <b>Opening Speech</b>  |   |   |  |
|               | Mr. João Carvalho, representing Secretary of State for Public Works, Transport and Communications Mr Sérgio Silva Monteiro                           |   |   |  |
|               | <b>Short Sea Shipping – Challenges and Opportunities</b>   |   |   |  |
|               | Mrs. Irene Rosberg, Programme Director of the Blue MBA of Copenhagen Business School and Chairman of the 2012 SSS Paper Review Committee             |   |   |  |
|               | <b>Shortsea shipping in motion: the role of academic research</b>  |   |   |  |
|               | Professor Dr. Theo Notteboom, President of the International Association of Maritime Economists (IAME) and President of ITMMA, University of Antwerp |   |   |  |
|               | <b>The Importance of SSS to the Maritime Economy: the Case of Portugal</b>   |   |   |  |
|               | Mr. Rui Raposo, Chairman of the Portuguese Shipowners Association, Portugal  |   |   |  |
| 10.30 - 11.00 | Coffee-break   |   |   |  |
| 11.00 - 13.00 | Opening Ceremony - Plenary Session   |   |   |  |
|               | <b>Mark Copsey</b>   | <b>Mark Yonge</b>   | <b>Isabel Ramos</b>                                   | <b>Volker Rosenkranz</b>                                     |
|               | General Manager Intermodal<br>Trades   | Chairman  | Business Development Manager<br>Aveiro Port Authority | Director   |
|               | <b>MacAndrews</b>  | <b>SOCP - Marine Highways<br/>Committee</b>   | <b>Associação dos Portos de<br/>Portugal</b>          | <b>Innovation Logistica SL</b>                               |
|               | United Kingdom   | United States   | Portugal  | Spain  |
|               | <i>Modal Shift in Short Sea<br/>Shipping</i>   | <i>Short Sea Shipping<br/>Development in the U.S – A<br/>Decade of Trials, Errors,<br/>Successes and New Directions</i> | <i>The Role of Ports in Short Sea<br/>Shipping</i>    | <i>The impact of ship technologies on<br/>SSS operations</i> |
| 13.00 - 14.30 | Lunch-Break  |   |   |  |

| Session       | ECONOMICS OF SHORT SEA SHIPPING   | SHORT SEA CORRIDORS   |
|---------------|---|---|
| Moderator     | William J. Lindman, U. S. Merchant Marine Academy, United States  | Ana Casaca, ESPRIM, Portugal  |
| 14.30 - 15.00 | <b>Logistics Corridors and Short Sea Shipping in the Baltic Sea Area</b> by Joachim R. Daduna, Kristina Hunke and Gunnar Prause   | <b>The Distribution of Short-Sea Shipping Routes</b> by César Ducruet and Olaf Merk   |
| 15.00 - 15.30 | <b>The Effect of Changing Economic Environment on the Ferry Shipping Market in Northern Europe</b> by Ilona Urbanyi-Popiolek, Magdalena Klopott and Kasia A. Kurek  | <b>COMPASS - The competitiveness of European Short Sea Freight Shipping Compared with Road and Rail Transport</b> by Eef Delhaye, Tim Breemersch, Kris Vanherle and James Kehou |
| 15.30 - 16.00 | <b>An Innovative and Comprehensive Methodology for Financial Risk Assessment of Shipping Companies with the Aim of Promoting Sustainability</b> by Panayotis G. Zacharioudakis, Nikolaos Katzourous and Dimitrios V. Lyrdis | <b>Italian Motorways of the Sea: When Great Expectations Turn to Lost Occasions</b> by Alessio Tei and Claudio Ferrari  |
| 16.00 - 16.30 | <b>Assessing Short-Sea Liner Shipping Potential: Example of Portuguese Trades</b> by Simme Veldman and Marten van den Bossche   | <b>The Optimization of a Fleet for the Sea Motorway: Vigo-St. Nazaire</b> by Alba Martínez López, Pilar Caamaño Sobrino, Laura Castro Santos and Blanca Priego Torres           |

|               |              |
|---------------|--------------|
| 16.30 - 17.00 | Coffee-break |
|---------------|--------------|

| Session       | SHORT SEA SHIPPING MARKETS   | MOTORWAYS OF THE SEA   |
|---------------|--|--|
| Moderator     | Leo Tadeu Robles, Universidade Federal do Maranhão, Brazil   | Ricardo Roque, APP, Portugal   |
| 17.00 - 17.30 | <b>Short Sea Shipping in the Gulf of Finland – Case Helsinki-Tallinn</b> by Ulla Tapaninen, Pekka Sundberg and Antti Posti   | <b>Critical Issue and Possible Developments of Italian Motorways of the Sea</b> by Maria Arcangela Bevilacqua and Marco Petrelli   |
| 17.30 - 18.00 | <b>The Italian Roll-On Roll-Off Sector: From the Puzzle of Statistics to a Realistic Scenario</b> by Maria Ines Cusano and Massimo Albanese  | <b>New Concept for a Short Sea Shipping Service on the St. Lawrence River, Canada</b> by Martin Fournier   |
| 18.00 - 18.30 | <b>Analysis of the Supply of Short-Sea Shipping Services in Spain Using the Lineport Database</b> by Lorena Sáez Carramolino, Eva Pérez García, Amparo Mestre Alcover and María Feo Valero | <b>Sea Motorways vs. Roads: An Analysis of their Relevance on the Spanish- French Atlantic Coastline</b> by Alba Martinez-Lopez, Lorena Garcia-Alonso and José Ángel Vallejo-Pinto |

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| 19.00 | Exit |
|-------|------|

| Session       | STRATEGIC AND POLICY ISSUES  | PORT ISSUES IN SHORT SEA SHIPPING   |
|---------------|--|---|
| Moderator     | Laurent Fedi, Euromed Management, France   | Luís Barroso, APP, Portugal   |
| 08.30 - 09.00 | <b>An Overview of Short Sea Shipping Integrated Logistics Services Providing: Port of Santos Case</b> by <i>Renata Carvalho and Leo Robles</i>   | <b>Maritime Ports and Inland Interconnections: A Transactional Analysis of Container Barge Transport in France</b> by <i>Emeric Lendjel and Marianne Fischman</i>                   |
| 09.00 - 09.30 | <b>Opportunities and Challenges of the Short Sea Shipping Industry. Investigating the External Environment</b> by <i>Ana Cristina Paixão Casaca, Sónia Carvalho and Mário Oliveira</i> | <b>Electronic T2L as a Solution to Improve Short-Sea Shipping and Motorways of the Sea in Europe</b> by <i>Eva Pérez García, José García, Miguel Llop and Amparo Mestre Alcover</i> |
| 09.30 - 10.00 | <b>An Analysis of the Brazilian Coastal Shipping Regulation System</b> by <i>Florian Pires Jr. and Felipe Casanova de Souza</i>  | <b>Containers Management Simulation in Short Sea Shipping Terminals</b> by <i>Alessandro Baldassarra, Alessandro Margiotta, Cristiano Marinacci and Stefano Ricci</i>               |
| 10.00 - 10.30 | <b>Multimodal Transportation in Eastern Europe: A Ukrainian Legislative Perspective</b> by <i>Proshanto K. Mukherjee and Olena Bokareva</i>  | <b>Proposition for Modelling an Intermodal Transport Network using fast Short Sea Terminals in Brazil</b> by <i>Afonso C. Medina, Nayara A. L. Valois and Rui C. Botter</i>         |

10.30 - 11.00

Coffee-break

| Session       | SHORT SEA SHIPPING ENVIRONMENTAL ISSUES   | THE HUMAN ELEMENT IN SHORT SEA SHIPPING   |
|---------------|---|---|
| Moderator     | Simme Veldman, ECORYS, The Netherlands  | Juha Heijari, Kotka Maritime Research Centre, Finland   |
| 11.00 - 11.30 | <b>Air Pollution from Ships: A Legal Perspective for Short Sea Shipping in European Countries</b> by <i>Laurent Fedi</i>  | <b>MLQ Analysis of Leadership in Short Sea Shipping</b> by <i>Olga Delgado, Víctor García and Xavier Martínez</i>   |
| 11.30 - 12.00 | <b>Oil Vs LNG Fuelled Ro-Ro Service for Greece as an Alternative to Road Transport</b> by <i>Stratos Papadimitriou, Ernestos Tzannatos and Ioannis Kolioussis</i> | <b>A Systems Perspective on Practical Experiences of Marine SCR Installations</b> by <i>Cecilia Österman and Mathias Magnusson</i>  |
| 12.00 - 12.30 | <b>Energy Efficiency Index Statistical Analysis Through Vessel Operating Data</b> by <i>Andrea Coraddu, Massimo Figari and Stefano Savio</i>                      | <b>U.S. Short Sea Vessel Crewing Issues and the Ship Admeasurement System in Comparison with the European System</b> by <i>William J. Lindman and Gerhardt Muller</i>                             |
| 12.30 - 13.00 | <b>Life Cycle Assessment of Fuels for Short Sea Shipping</b> by <i>Selma Bengtsson, Karin Andersson and Erik Fridell</i>  | <b>People May not Change but Perhaps their Behaviour Can? Behaviour Based Safety Process in Short Sea Shipping Safety</b> by <i>Nikolaos P. Ventikos, Georgios V. Lykos and Ioanna I. Padouva</i> |

13.00 - 14.30

Lunch-Break

| Session       | SHORT SEA SHIPPING ENVIRONMENTAL AND SAFETY ISSUES   |
|---------------|--|
| Moderator     | Ernestos Tzannatos, Department of Maritime Studies, University of Piraeus, Greece  |
| 14.30 - 15.00 | <b>Decision Support for a Sustainable Shipping – How Can Scientists Contribute?</b> by <i>Karin Andersson</i>  |
| 15.00 - 15.30 | <b>Is Natural Gas the Solution for Port Pollution Avoidance in Spanish SSS Ports?</b> by <i>Juan José Usabiaga Santamaría, Marcel La Castells i Sanabra and F. Xavier Martínez de Osés</i> |
| 15.30 - 16.00 | <b>Barriers for Improving Energy Efficiency in Short Sea Shipping - A Case Study</b> by <i>Hannes Johnson, Mikael Johansson and Karin Andersson</i>  |
| 16.00 - 16.30 | <b>Improving Maritime Safety in Short Sea shipping</b> by <i>Jouni Lappalainen, Jenni Storgård and Ulla Tapaninen</i>  |

16.30 - 17.00

Coffee-Break

| Session       | EU - RESEARCH   |
|---------------|---|
| Moderator     | Ana Casaca, ESPRIM, Portugal  |
| 17.00 - 17.45 | <b>Developing operational maritime safety at the European level (Project CAFE)</b> by <i>Juha Heijari</i>   |
| 17.45 - 18.30 | <b>Preparing the low fuel, low CO2 maritime transport, serving small ports. An innovative vessel concept for container and general cargo, the results of the EUPROject.</b> by <i>Volker Rosenkranz and Carlos Alvarez Cascos Mauriño</i> |

18.30

Closing Ceremony

18.45

Exit



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