The Maritime Transport of the Future

The Role of Innovation Uptake, Sustainability and Availability of Shipping Finance

Annual Conference of the International Association of Maritime Economists

23 - 26 August 2016, Hamburg, Germany
Greetings from the IAME President

Dear IAME 2016 Participant,

It gives me great pleasure to personally welcome you to the IAME 2016 conference in my home-town Hamburg. While I myself currently work for the United Nations in Geneva (Switzerland), the conference hosts are Professor Michele Acciaro (Italian) from Kühne Logistics University and Professor Orestis Schinas (Greek) from the Hamburg School of Business Administration – a nice illustration of how international our Association is.

Special thanks go to the entire organizing team and steering committee. We have a new record number of papers that were submitted for review. This required extra efforts and time from the organizers and reviewers – and at times some patience from the authors.

As we prepare for our 25th Anniversary next year in Kobe (Japan), I think it is good news to also have a German city hosting an IAME conference for the first time, given the important role German companies and ports play especially in container shipping. Welcome on board!

Now, I can only wish you a very pleasant stay in the old Hansestadt Hamburg – a city whose entire history and development is linked to its port and shipping business. Today, Hamburg is also a center of international media companies, is among the most visited cities in Germany, and hosts the International Tribunal for the Law of the Sea. Building upon its tradition of being the “Tor zur Welt” – the gate to the world – it is just the right place for our 2016 IAME conference.

With best wishes,

[signature]

Dr. Jan Hoffmann
IAME President
Greetings from the Conference Chairs & Hosts

Dear IAME 2016 Participants, dear colleagues and IAME friends,

We are extremely pleased of having been able to bring IAME to Hamburg, as we are proud of showing what this city has to offer—and it is a lot, especially for those with a passion for shipping and ports. As neither of us was born in Germany, the fact that we chose to make Hamburg our home among the many places around the world is not only because of the reputation of our Institutions and our jobs. Our choice is the result of the richness of experiences that the city has to offer, of its vibrant business community and of the many opportunities that allowed us to create in Hamburg the life we feel is most suitable for us. We are sure that all of you will enjoy all that makes this city very special: its entrepreneurial spirit, its trade and commerce tradition, its liberal attitude and its open-mindedness.

Hamburg is an ideal place to host IAME, being an important global harbour, a centre for ship finance and an innovative maritime cluster. We tried our best to offer you a good overview of the city through the social programme that we have put together and of its maritime tradition through the technical tours and we hope that the maritime knowledge that Hamburg has to offer will resonate in the rich scientific programme. It has been a lot of work, for which we certainly need to thank our collaborators, our sponsors and anybody that made IAME 2016 in Hamburg possible, and we hope that this effort will result in a most gratifying experience for all of you.

Enjoy the conference and we hope for many happy returns to this beautiful metropolis on the Elbe,

Prof. Dr. Michele Acciaro
Associate Professor of Maritime Logistics
Head of Logistics Department
Kühne Logistics University (KLU)

Prof. Dr. Orestis Schinas
Professor of Shipping and Ship Finance
Head of Maritime Business School
Hamburg School of Business Administration (HSBA)

Prof. Dr. Wolfgang Drobetz
Professor of Corporate Finance and Ship Finance,
University of Hamburg

About IAME & the Conference

The International Association of Maritime Economists (IAME) was created in the early 1990s and has since then become the most prominent global group of scholars with an interest in maritime transport, interpreted in the broadest sense to include ports, shipping and hinterland transport. IAME members come from a variety of research backgrounds, primarily economic and management, but also logistics, finance, engineering and social sciences. It is the aim of the IAME to promote and facilitate the productive exchange of knowledge, information and experience on economic issues within the wider maritime sector, among academics, professionals and policy makers.

The main event for the Association is its Annual Conference that brings together academics from every corner of the planet every year to a different location. The IAME Annual Conference is an opportunity for the world scientific community to meet and discuss current research topics and to contribute to the development of maritime economics and management as an independent discipline.

Organising Committee

Prof. Dr. Michele Acciaro
Associate Professor of Maritime Logistics, Head of the Logistics Department, Equality and Diversity Officer, Kühne Logistics University (KLU)

Prof. Dr. Orestis Schinas
Professor of Shipping and Ship Finance, Head of Maritime Business School, Hamburg School of Business Administration (HSBA)

Prof. Dr. Wolfgang Drobetz
Professor of Corporate Finance and Ship Finance, University of Hamburg

Prof. Dr. Stefan Voll
Professor and Director of the Institute of Information Systems at University of Hamburg

Prof. Dr. Carlos Jahn
Professor of Maritime Logistics, Hamburg University of Technology and Director of the Fraunhofer Center for Maritime Logistics and Services (CML)

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Partners

Hosts and Co-Organisers

Supporting Institutions

Sponsors
Hosting Institutions

Hamburg School of Business Administration (HSBA)

HSBA is the university for business in Hamburg. Founded in 2004 by Hamburg’s Chamber of Commerce as a state-recognised third-level institution, it offers bachelor’s and master’s degrees in business as dual and part-time courses for 870 students. We cooperate with more than 250 companies, which are actively involved in designing and developing our courses in order to ensure that they are constantly aligned with business needs. This means that HSBA graduates are perfectly prepared for the requirements of business and have excellent career opportunities. High-quality further education for skilled employees and executives, as well as application-oriented research and consultancy, complete the services offered by HSBA. Our Executive Education programme draws on the management knowledge of our teaching staff and on our manifold experiences with our MBA courses for people in employment. HSBA is strongly influenced by the model of the honourable merchant, whose entrepreneurial dealings lead to success in business while also assuming social responsibility. Accordingly, we signed the six “Principles for Responsible Management Education (PRME)” of the UN, which aim to train responsible future managers.

“We are proud that HSBA has the opportunity to co-host such a renowned conference, which will bring maritime experts from all over the world to our city and our university, and thus, contribute to - and be part of - this exceptional scientific community. As business hub for the maritime industry, Hamburg is the ideal place to also foster applied academic research and to contribute to - and be part of - this exceptional scientific community. As business hub for the maritime industry, Hamburg is the ideal place to also foster applied academic research and consultancy, complete the services offered by HSBA. Our Executive Education programme draws on the management knowledge of our teaching staff and on our manifold experiences with our MBA courses for people in employment. HSBA is strongly influenced by the model of the honourable merchant, whose entrepreneurial dealings lead to success in business while also assuming social responsibility. Accordingly, we signed the six “Principles for Responsible Management Education (PRME)” of the UN, which aim to train responsible future managers.”

Prof. Dr. Hans-Jörg Schmidt-Trenz, President of HSBA

Kühne Logistics University (KLU)

The Kühne Logistics University, Wissenschaftliche Hochschule für Logistik und Unternehmensführung (KLU) is an independent, state-accredited, private university focusing on logistics and management. Sponsored by the nonprofit Kühne Stiftung, KLU offers a broad spectrum of courses and research in logistics and supply chain and business management.

Our BSc, MSc, and PhD degree programs feature an international student body, an outstanding faculty, an intimate learning environment, and extensive corporate ties. Our Executive MBA program, a seminar series, and international summer and autumn schools provide excellent opportunities for professionals to expand their expertise.

KLU is unique for its international faculty known for research excellence in logistics, transportation, supply chain management, and related aspects of business. Our research and teaching in these fields is structured as three areas of competence: digital transformation, creating value and sustainability. KLU is situated in the waterfront urban development area of HafenCity in Hamburg, which as one of Europe’s largest seaports is ideal for the campus. KLU is one of the top universities in the 2014 Handelsblatt research ranking of business administration faculties and achieved top ratings in the 2014 CHE university rankings.

“We at KLU are proud to be one of the hosts of this year’s IAME conference and invite you to explore the opportunities this conference and the highly renowned researchers it attracts from all over the world provide. We are looking forward to meeting extraordinary people, exchanging innovative ideas and building new partnerships, both in research and in industry.”

Thomas Strothotte, President and Managing Director of KLU

Co-Organising Institutions

University of Hamburg

The University of Hamburg is the largest university in Hamburg, Germany. It was founded on 28 March 1919 by Wilhelm Stern and others. It grew out of the previous Allgemeines Vorlesungswesen and the Kolonialinstitut (Colonial Institute) as well as the Akademisches Gymnasium. In spite of its relatively short history, six Nobel Prize Winners and a number of internationally renowned scholars are affiliated to the University. The annual recruitment of about 7,000 freshmen contributes to the current total of 38,000 students, of which every year 3,500 reach graduations and of which 900 receive doctoral degrees. Students can choose from 120 different majors which are offered by six faculties.

TUHH Hamburg University of Technology (TUHH)

The TUHH is one of Germany’s youngest and most successful universities. Plans for a university of technology in the Süderelbe area of Hamburg go back to the 1920s. Fifty years later, in 1978, the Hamburg University of Technology came into being, its mission to promote structural change in the region. Between 1982 and 2005, a campus university grew up in the south of Hamburg, its modern buildings blending into the terrain. Now, the TUHH has around 100 professors and 1,150 employees (including 500 academic staff, inclusive of those with salaries from thirdparty funding). With around 5,000 students, this makes for an excellent staff-student ratio.

Fraunhofer Center for Maritime Logistics and Services (CML)

The Fraunhofer Center for Maritime Logistics and Services (CML) conducts professional contract research for private and public sector clients in the maritime industry, including ports, terminal operators, shipping companies and logistics service providers. CML plans, develops, and implements innovative, customer focuse problem solutions for the maritime supply chain.

At KLU Kühne Logistics University
Greeting from the ISSC

On behalf of the Organising Committee and the Programme Committee of the International Association of Maritime Economists (IAME) Conference 2016, we welcome all IAME Members, Non-Members, as well as participants from Industry and Governmental representatives to Hamburg. Our institutions north and south of the river Elbe feel honored hosting this conference.

Maritime Shipping and Maritime Economics are currently facing major challenges (as almost always). Obvious ones are dealing with cascading, difficulties in having profitable freight rates and enforcements regarding emission reductions. But there are more. While modern information and communication infrastructure allows us to deal with so-called big data and cloud computing, problems and stakeholders need to become integrated. Various problems are interwoven and we are now in a position of thinking about solving them in an integrated fashion.

We are improving the situation in many aspects; we are even improving in the way we optimize. However, when everything gets optimized in perfect plans there is (almost) no more room for changes. A grand challenge not only in maritime shipping refers to the way we are dealing with disturbances. It need not be a tsunami, it can be small changes. Or it can be missed opportunities. And still, we need to find ways to cope with them.

To deal with all these challenges, maritime economics needs to broaden its scope. It needs to open up towards intelligent problem solving, the development of advanced decision support systems, connectivity that is not only seen as an enabler of trade between countries on a macro level, but also considers capacity restricted transport corridors on the micro level. Having said all that, there is so much room for future research in maritime shipping and maritime economics.

IAME is there to face it. Our conference is there to face it. On behalf of everybody supporting the academic programme of the conference, readers, writers, presenters, listeners, referees and alike together with everybody in the various committees we wish our conference every possible success. We sincerely hope that the conference will be as pleasant and as memorable as possible.

Let’s be inspired by the most beautiful city in the world and advance maritime economics spreading from the Gate to the World to the world; it pays.

With best wishes,

Prof. Dr. Stefan Voss (Chairman)
University of Hamburg, Institute of Information Systems

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Prof. Dr. Theo Notteboom
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Prof. Dr. Francesco Parola
University of Genoa, Italy

Prof. Dr. Gordon Wilmsmeier
ECLAC, Chile
The IAME 2016 Hamburg organisers would like to thank the reviewers for their support in the assessment of the papers and for the valuable comments provided to the authors. This has allowed offering at least two, and in most cases three, reviews per paper submission. The following people have contributed to the review process:

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Lau Tui Yip
Huying Zhang
Thalis Zis

Conference Programme

Annual Conference of the International Association of Maritime Economists
23 - 26 August 2016, Hamburg, Germany
### Programme Overview

**23 August**
- **09:00** KLU, Port Performance Research Network
- **17:00** KLU, Welcome Reception

**24 August**
- **08:00** HSBA, Registration and Coffee
- **09:00** HSBA, Plenary: Opening Ceremony
- **10:30** HSBA, Coffee Break
- **11:00** HSBA, Parallel Sessions (Slot 1)
- **12:40** HSBA, Lunch Break
- **14:00** HSBA, Parallel Sessions (Slot 2)
- **15:40** HSBA, Coffee Break
- **16:00** HSBA, Parallel Sessions (Slot 3)
- **17:40** HSBA, End of Day 1

**25 August**
- **09:00** HSBA, Parallel Sessions (Slot 4)
- **10:40** HSBA, Coffee Break
- **11:00** HSBA, Parallel Sessions (Slot 5)
- **12:40** HSBA, Lunch Break
- **14:00** HSBA, Plenary: Migration by Sea and its Impact on Humanitarian and Maritime Operations
- **15:40** HSBA, Coffee Break
- **16:00** HSBA, Parallel Sessions (Slot 6)
- **17:40** HSBA, End of Sessions
- **19:00** EMPORIO, Gala Dinner and Conference Award Prize Ceremony (Dammtorwall 15)

**26 August**
- **09:00** KLU, Technical Tours
- **13:00** KLU, Lunch Break
- **14:00** KLU, Closing Ceremony and AGM

### Detailed Programme

**23 August**
- **09:00** KLU, Room EE1, Floor 5, Port Performance Research Network
- **14:00** KLU, Room EE1, Floor 5, IAME Council Meeting I
- **14:00** KLU, Foyer, Technical Tour: UNESCO World Heritage Site Warehouse District, Hafencity and Maritime Museum
- **17:00** KLU, Foyer, Welcome Reception

**24 August**
- **09:00** HSBA, Commerzaal, HCC, Plenary: Opening Ceremony
  - Welcome Address
  - Senator Frank Horch, Senator of the Ministry of Economy, Transport and Innovation
  - Jan Hoffmann, IAME President
- **14:00** KLU, Foyer, Address of the Organising Committee
  - Michele Acciaro, Kühne Logistics University (KLU)
  - Orestis Schinas, Hamburg School of Business Administration (HSBA)
  - Wolfgang Drobetz, University of Hamburg
  - Carlos Jahn, Hamburg University of Technology, Fraunhofer Center for Maritime Logistics and Services (CML)
  - Stefan Voß, University of Hamburg
- **15:40** HSBA, Commerzaal, HCC, Keynote Speech
  - Peter Lorange, CEO, Lorange Institute of Business Zurich
- **16:00** HSBA, Commerzaal, HCC, Coffee Break

**25 August**
- **10:30** HSBA, Commerzaal, HCC, Coffee Break
Session A1  Commersaal Hamburg Chamber of Commerce

Port Governance

Chair: T. Noteboom

Government-Owned Port Development Companies: the Role of the Public Shareholders (O)
Larska van der Lugt1, Peter de Lange2
1Erasmus University Rotterdam, Rotterdam, Netherlands, 2Eindhoven University of Technology, Netherlands

Port Authority Strategies: Entrepreneurial Opportunity Identification Approach (O)
Cheryl Basil Sequeira,
Port Authority Strategies: Entrepreneurial Opportunity Identification Approach (O)
1Erasmus University Rotterdam, Rotterdam, Netherlands, 2Eindhoven University of Technology, Netherlands

Seaport Competition based on Structural Complementarity and Substitutability (O)
Indra Vonck1, Notteboom Theo2,1,4,5, Michael Dooms3
1University of Agder, Kristiansand, Norway, 2World Maritime University, Sweden, 3Vrije Universiteit Brussel, Belgium, 4Ghent University, Belgium, 5Erasmus University Rotterdam, Rotterdam, Netherlands

Seaport Collaboration Beyond Proximity: Inter-Organisational Relationships of European Port Management Entities (O)
Athanasios Pallis & Paraskevi Kladaki,
Port Collaboration Beyond Proximity: Inter-Organisational Relationships of European Port Management Entities (O)
1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom, 3University of Oviedo, Spain

Port Governance

Chair: H. Tanaka

On Compliance with Air Pollution Limits from Ships in SECA - A Survey among Swedish Shipowners (O)
Zoë Johansson Nikoaloa,
Industrial and Financial Management & Logistics Group School of Business, Economics and Law, University of Gothenburg, Sweden

The Impact of Slow Steaming on Intercontinental Supply Chains: Assessing the Tradeoff Between the Carrier’s and Shipper’s Costs
Ioannis Malakis1, Iakovou Eleftheriou1, Rammert Dekker2, Dimitrios Vlachos1
1Aristotle University of Thessaloniki, Greece, 2Texas A&M University, College Station, USA, 3Erasmus University Rotterdam, the Netherlands

Ship Owners’ Choice of Engine Low Emission Technologies in Different Markets and Segments. (O)
Christel Wilk, Seppe Nieno
Vossus University, Finland

Effects of Market-Based Measures on a Maritime Company: Dynamic Model Approach. (O)
Hidemi Tanaka, Akira Ohsada
Tokyo City University, Japan

Value-Based Optimization of Reefer Container Ship Sailing Speed (O)
Xuan Tran Zhang, Jianping Suo Lu Lam
Nanyang Technological University, Singapore

Session B1  HKIC (Adolphsplatz 6)

Session C1  HKIC (Adolphsplatz 6)

Emissions from Shipping

Chair: H. Tanaka

Port Competition through Hinterland Accessibility: the Case of Spain (O)
Lorenza Garcia Alonso1, Jason Monios1, Jose Angel Valdevilla Plinio1
1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom, 3University of Oviedo, Spain

Studying the Impact of Standardisation on Intermodal Transportation Performance (O)
Amir Hosseini Gharahgoli, Henrik de Vries, Stephan Dieckmann
1Texas A&M University at Galveston, United States, 2Rotterdam School of Management, Netherlands

Entropy Maximising Facility Location Model for Port City Intermodal Terminals (O)
Michael Bell, Collins Teye
1Texas A&M University at Sydney Business School, Australia

An Evaluation of External Costs in Transport Scenarios with Greater Use of Shipping: A Comparison of Rail and Sea for Sweden’s East Coast Container Movements (O)
Inge Vrilt, Victor Søva1
1KTH, Sweden, 2Envisol, Sweden, 3Gothenburg University, Sweden

The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)
Ralf Ebert, Katrin Scharf
Technische Universität Darmstadt, Germany

Hinterland Transportation

Chair: J. Monios

Port Competition and Cooperation (The IMO Low-Sulphur Fuel Requirements: An Evaluation from a Seaport Competitiveness Meta-Analysis (O)
Ilias Vrakilis,
Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)
1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom, 3University of Oviedo, Spain

New Evidence from Freight Derivatives Markets (O)
Economic Information Transmissions between Shipping Markets: New Evidence from Freight Derivatives Markets (O)
Ilias Vrakilis, George Alexandrakis, Satya Sahoo
1World Maritime University, Sweden, 2Henley Business School, Univ. of Reading, United Kingdom

A Practical Review of the Theories for Calculating Bunker Hedging Rates (O)
Moritz Unal, Dorett Scholz
1Hamburg School of Business Administration, Germany, 2Hamburg Chamber of Commerce, Germany

An Analysis of Ship Investment Using Expert Classification Fuzzy Analytical Hierarchy Process Method (EXCLASS-FAHP) (O)
Rek Sahin, Emrah Bulut
1Yildiz Technical University, Turkey, 2ITLS, Technical University, Turkey

Session D1  HKIC (Adolphsplatz 6)

Ship Finance

Chair: I. Visvikis

Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)
Grace Wang1, Zhenren Yang2, Xi Zhang1, Anqi Huang1, Zali Yang3
1Liverpool John Moores University, United Kingdom, 2The University of Technology, China, 3Beijing Jiaotong Univ, China

New Evidence from Freight Derivatives Markets (O)
Economic Information Transmissions between Shipping Markets: New Evidence from Freight Derivatives Markets (O)
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Rek Sahin, Emrah Bulut
1Yildiz Technical University, Turkey, 2ITLS, Technical University, Turkey

Session E1  Room 1.05 HKIC (Adolphsplatz 6)

Cooperation and Scale Economies in Container Shipping

Chair: J.-P. Rodrigo

The Disadvantages of Scale in Container Maritime Shipping (O)
Jean-Paul Rodrigue
Hofstra University, United States

Ultra Large Containerships (ULCs) - Analysis of Economies of Scale (O)
Changxia Guo1, Shuwei Sun2, Yajialei Jiao3
1U.S. Merchant Marine Academy, United States, 2SUNY Maritime College, United States, 3Shanghai Maritime University, China

Capacities in the Liner Shipping Industry - are Resource Levels still Synchronized? (O)
Hans Joachim Schramm1, Günter Prockl2, Petr Kolč1
1Wirtschaftsuniversität Wien, Austria, 2Copenhagen Business School, Denmark

The Implications of the Recent Mergers in the Container Industry (O)
Gordon Wittmeyer
UN-ECLAC, Chile

Port Economics and Management

Chair: Z. Yang

Port Competition and Cooperation (The IMO Low-Sulphur Fuel Requirements: An Evaluation from a Seaport Competitiveness Meta-Analysis (O)
Ilias Vrakilis,
Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)
1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom, 3University of Oviedo, Spain

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1World Maritime University, Sweden, 2Henley Business School, Univ. of Reading, United Kingdom

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1Hamburg School of Business Administration, Germany, 2Hamburg Chamber of Commerce, Germany

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Rek Sahin, Emrah Bulut
1Yildiz Technical University, Turkey, 2ITLS, Technical University, Turkey

Session F1  Room Merkur Hamburg Chamber of Commerce

Port Competitiveness

Chair: Z. Yang

Port Competition and Cooperation (The IMO Low-Sulphur Fuel Requirements: An Evaluation from a Seaport Competitiveness Meta-Analysis (O)
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1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom, 3University of Oviedo, Spain

New Evidence from Freight Derivatives Markets (O)
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Ilias Vrakilis, George Alexandrakis, Satya Sahoo
1World Maritime University, Sweden, 2Henley Business School, Univ. of Reading, United Kingdom

A Practical Review of the Theories for Calculating Bunker Hedging Rates (O)
Moritz Unal, Dorett Scholz
1Hamburg School of Business Administration, Germany, 2Hamburg Chamber of Commerce, Germany

An Analysis of Ship Investment Using Expert Classification Fuzzy Analytical Hierarchy Process Method (EXCLASS-FAHP) (O)
Rek Sahin, Emrah Bulut
1Yildiz Technical University, Turkey, 2ITLS, Technical University, Turkey

Session G1  Room Hanse Hamburg Chamber of Commerce

No Session Scheduled.

Session H1  Room Elbe Hamburg Chamber of Commerce

Port Competitiveness

Chair: O. Duru

Seaport Competitiveness Research: A Bibliometric Citation Meta-Analysis (O)
Ziaul Haque Mumin, Naima Saeed
1University of Agu, Norway

Identifying the Dimensions of Seaport Performance from a Stakeholders Perspective - A Systematic Review (O)
Eamon O’Connor, Arnaéza Vega, Natasha Evers
National University of Ireland Galway, Ireland

Port Productivity Assumptions for Major Container Terminals of Turkey (O)
Okan Duru, Soner Esen, Serdar Altıpkah1
2Texas A&M University at Galveston, United States, 3Dokuz Eylul University, Turkey, 4Koc University, Turkey

Alignments between Strategic Contents and Process Structure: The Case of Container Terminals Service Process Automation (O)
Ping Wang1, Joan Mikihel, Shengzhong Zeng1, 2Texas A&M University at Galveston, United States, 3Dokuz Eylul University, China
Session A3
Commerzbank Hamburg Chamber of Commerce

Port Performance
Chair: Y.-K. Woo

What Drives European Port Traffic? The Role of Competition (O)
Xavier Fageda, Marta Gonzáles-Aregaill
University of Barcelona, Spain

Using Tariff Data for Port Economic Impact Analysis of Cargo Movement (O)
Grace Wang, Wen-Hsiang Chang, Yue Cui1
Texas A&M University Galveston, United States; US Army Corps of Engineers, United States

Ranking Ports and Benchmarking their Relative Evolution: a Principal Component Analysis Applied to the Hamburg – Le Havre Range (O)
Jose Jentjens
University of Antwerp, Belgium

The Minimum Efficient Scale of the Port Industry (O)
Young-Joon Seo1, Jin Suk Park2, Dong-Wook Kwak2
University of Antwerp, Belgium

Joost Hintjens

Ranking Ports and Benchmarking their Relative Evolution: a Principal
Component Analysis Applied to the Hamburg – Le Havre Range (O)

Chair: Y.-K. Woo

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University of Antwerp, Belgium

Joost Hintjens

Session B3
Auditorium
HKIC (Adolphsplatz 6)

Bulk Shipping
Chair: N. Nomikos

Forecasting the Baltic Dry Index: An Enhanced Multivariate Approach (O)
Vangelis Takovs1, Ioannis Papadimitriou1, Yiannis Smirnis2
DIEE - The American College of Greece, Greece; University of Piraeus, Greece

Analysis of the Development Potential of Bulk Shipping Network on the Yangtze River (O)
Dong Yang, Shaolian Wang
The Hong Kong Polytechnic University, Hong Kong

Vessel Price Formation and Second-Hand Market Activity in the Dry Bulk Shipping Industry. (O)
Ioannis Moustouli, Nikos Nomikos
City University London, United Kingdom

Unmanned Autonomous Ships - An Exploratory Comparative Cost-Benefit Analysis for a Bulk Carrier (O)
Lutz Kretzschmar, Hans Christoph Burmeister, Carlos John Fraunhofer Center for Maritime Logistics and Services CML, Germany

The Effects of Macroeconomic Variables on the Term Structure of Freight Rates (N)
Maria Giannopoulou, Nikos Nomikos
City University London, United Kingdom

Session C3
Room 4.07
HKIC (Adolphsplatz 6)

The Cruise Industry
Chair: M. Lebakou

Cruise Ports in Turkey: A Statistical Analysis (O)
Gorkem Dikici1, Ersin First Akgol1
Dokuz Eylul University, Turkey; Bodrum University Ozyeyl University Turkey

Supply Chain Disruptions in the Cruise Line Industry (O)
Ahlyas Adams, Amir-Hossein Charleboz; Joao Milecki
Texas A&M University at Galveston, United States

Cruise Industry - Shipyard Selection for Maintenance and Repair of Cruise Vessels (O)
Sarah Merley, Grethe Slaats
TSK Cruises, Germany; Hamburg School of Business Administration

Session D3
Room 5.03
HKIC (Adolphsplatz 6)

Arctic Shipping
Chair: M. Furuichi

Arctic Seaport Development: Application of Structuration Model to the Port of Sabetta (Russia) (O)
Dana Cottellad, Elena Efremov
University of Helsinki, Finland; St. Petersberg State University, Russia

A Dynamic Capabilities Perspective on First Mover Advantages of Norway in the Northern Sea Route (O)
Helene Salvesang, Stavana Karampanidhi, Nikolas Valantasis-Kanelis, Dong Wook Song
TIELE Solutions AS, Norway; Heriot Watt University, United Kingdom; Dublin Institute of Technology, Ireland; World Maritime University, Sweden

The Future of Arctic Shipping Business and the Positive Influence of the Polar Code (O)
Dimitrios Dakalakis, Efvi Baxevanis, Petros Savasas
World Maritime University, Sweden; University of the Aegean, Greece

Chair: M. Furuichi

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The Future of Arctic Shipping Business and the Positive Influence of the Polar Code (O)
Dimitrios Dakalakis, Efvi Baxevanis, Petros Savasas
World Maritime University, Sweden; University of the Aegean, Greece

Session E3
Room 1.05
HKIC (Adolphsplatz 6)

Trade and Ports: Focus on Asia and Australia
Chair: P.T.-W. Lee

Food Miles Study of China’s Agricultural Exports Logistics (O)
Xie Jingci, Liang Xiaohong, Zhang Zhijun
Shandong University, China

An Anatomy of the “One Belt and One Road” from the Viewpoint of Structural Changes in Maritime Transport (O)
Paul T.-W. Lee
IMIT University, Australia

Forecasting Australian Port Throughput: Lessons and Pitfalls in the Era of Big Data (O)
Yuriy Tylpynskiy, Somayi Rannou; George Mathews, Thomas Vitsounis
CSIRO Data 61, Australia

Chair: P.T.-W. Lee

Food Miles Study of China’s Agricultural Exports Logistics (O)
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CSIRO Data 61, Australia

Session F3
Room Merkur
HKIC (Adolphsplatz 6)

Port Management and Port Hinterland
Chair: J.S.L. Lam

Recent Shifts on Hinterlands - Just a Matter of Economies of Scale? (N)
David Quenner, Université Paris Est, France

A Research on Container Port Competition and Port Selection in Containerable Hinterlands (N)
Kemal Akbayrak1, Dursun All Devec; Encai Kaptulos; Gokcay Bald1
Dokuz Eylul University, Turkey; Ondis University, Turkey; Yildiz Technical University, Turkey; Burcu Technical University, Turkey

Towards Sustainable Port Development Model: A Comparative Analysis between Singaporean and Korean Ports (N)
Saebyeok Rho, Plymouth University, United Kingdom

Port Competition under Emision Control (N)
Hyosoon Park, Young-Tae Chang
Inha University, Korea

Chair: J.S.L. Lam

Recent Shifts on Hinterlands - Just a Matter of Economies of Scale? (N)
David Quenner, Université Paris Est, France

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Saebyeok Rho, Plymouth University, United Kingdom

Port Competition under Emision Control (N)
Hyosoon Park, Young-Tae Chang
Inha University, Korea

Session G3
Room Harsh
HKIC (Adolphsplatz 6)

Security and Migration
Chair: M. Beslou

A Mathematical Method for the Selection of Naval Escorting Locations (O)
Tiannhang Cai1, Jing Li1, Maqin Sun2
Dokuzkent Maritime University, China; Zhangleiying Data Storage Technology Co., China

Integrating Unmanned Vehicles in Port Related Safety and Security Operations - An Introductory Analysis and First Applicable Frameworks (O)
Michael Weidhardt
Kühne Logistics University, Germany

The Refugee Situation and Rescue at Sea: Legal Steps (E)
Kühne Logistics University, Germany

The Future of Arctic Shipping Business and the Positive Influence of the Polar Code (O)
Dimitrios Dakalakis, Efvi Baxevanis, Petros Savasas
World Maritime University, Sweden; University of the Aegean, Greece

Monitoring and Improving Data Quality in Vessel Performance (E)
Cemil Solak Fiskin & A. Güldem Cerit, Dokuz Eylul University, Turkey

Session H3
Room Elbe
HKIC (Adolphsplatz 6)

Big Data Applications in Shipping and Ports
Chair: J. Hoffmann

Remote Container Management at Maersk Line (E)
Sebastian Zurheide, Maersk Line, Denmark

Are AIS-based Trade Volume Estimates Reliable? The Case of Crude Oil Tankers (E)
Hoying Jin, Center for Applied Research (SNF), Norway

Remote Allianz Norwegian School of Economics (NHE), Norway

Remote Fjord, Norwegian School of Economics, Norway

Mapping the Maritime Transport/Shipping Literature: Bibliometric Analysis and a Qualitative Research (O)
Cemile Solak Fiskin & A. Güldem Cerit, Dokuz Eylul University, Turkey

Haiying Jia, Center for Applied Research (SNF), Norway

Analysing Port Connectivity using Maritime Big Data (E)
Hoying Jin & Siri P. Stroemness, Norwegian School of Economics, Norway

Vemund Solteszov & Ove Dose Lampe, Christian Michelsen Research, Norway

Egon Einar Carlsøe, Kjell Werny Brytter, Cong Chen & Olebjorn Jia, Aalborg University, Denmark
Session A4  
Chair: M. Shinohara  
Port Management Strategy in Asia - Away from the Existing Paradigm (E)  
Masato Shinohara  
Kyoto University, Japan

Competitiveness of Port of Rotterdam: A Resource Base View (O)  
Shiva Madaeni, Rudi H. Kain  
BMIT University, Australia

The Institutional and Operational Functions of Port Authorities: The Gov-Ad-Man Approach. (O)  
Korean Ibrahani  
University Metropolitan Tirana, Albania

Environmental Sustainability and Energy Efficiency Regulations: The University Metropolitan Tirana, Albania  
Krenar Ibrahimi  
University of Naples Parthenope, Italy  
Assunta Di Vaio, Luisa Varriale

Balanced Scorecard for Competitive Green Ports (O)  
Francesco Parola  
The Italian Case (E)  
University of Naples Parthenope, Italy

Session B4  
Chair: M. Chasomeris  
Environmental Port Charges Reduction Schemes: an Economic Analysis (E)  
Michèle Azami1, Vaakhee Kosma2  
Yuhbe Logistics University, Germany; Copenhagen Business School, Denmark

Environmental Differentiated Port Infrastructure Charging: Current Status and Implications in the Hamburg-Le Havre Range (O)  
Magali Geerts, Michael Dooms, Mychal Langenus  
Vrije Universiteit Brussel, Belgium

Tackling Uncertainty in Green Pricing Decision-Making: the Case of Port Infrastructure (E)  
Magali Geerts, Michael Dooms, Mychal Langenus  
Vrije Universiteit Brussel, Belgium

Optimal Port Pricing in the Mediterranean Basin (O)  
Christodoulos Stavrou, Dimitri Tsokudios, Phoas Papayides  
Cypriot University of Technology, Cyprus

A Critique of South Africa’s National Ports Authority’s Revenue Required Pricing Methodology (O)  
Sarelle Gumede, Mihalis Chasomeris  
University of Kwa-Zulu-Natal, South Africa

Quality Shipping 2020 and Fair Pricing of Transport (E)  
Christian Rahiker, Andreas Hölscher1, 2  
Hamburg Chamber of Commerce, Germany  
1Hamburg School of Business Administration, Germany, 2Technische Universität Dresden, Germany

Session C4  
Chair: V. Lun  
Development of a Ship Weather Routing System for Energy Efficient Shipping (O)  
Tong Cui, Osman Turan, Evangelos Boulougouris  
University of Strathclyde, United Kingdom

The European ships’ Monitoring, Reporting and Verification (MRV): Pre-Evaluation of a Regional Regulation on Carbon Dioxide Inventory (O)  
Laurent Fedj  
KEDGE BS, France

The Economization and Marketization of Sustainable Ship Breaking (O)  
Cristiana Parliki, Carsten Bitts Hansen  
Copenhagen Business School, Denmark

Exploring the Marine LNG Fuel Distribution Chain: The Baltic Case (O)  
Ludovia Minondo, Helver Schayen  
University College of Southeast Norway, Norway

Establishing an Analytical Model and Simulation for Conversion from HFO to LNG Fueled Fleet (O)  
Mohammad Vafani  
University of Antwerp, Belgium

Session E4  
Chair: A.K.Y. Ng  
An Exploratory Study of the Training of South African Officers in the Merchant Navy (E)  
Shaun Ruggunan  
University of Kwa-Zulu-Natal, South Africa

Port Governance Reform and Institutional Plasticity: Insights from the Italian Case (E)  
Francesco Paradiso, Claudio Ferranti, Alessio Tejé, Giovanni Sattarà, Enrico Muselli  
University of Genoa, Italy; Newcastle University, United Kingdom

The Human Element in Maritime Transport  
Yui Yip Lau1, Adolf K.Y. Ng2, Ka-Chai Tam3, Erico Ka Kan Chan4  
Supply Chain Education: A Comparative Study of High Diploma and Associate Degree (O)  
1, 2, Orestis Schinas1, Claudio Ferrari1, Alessio Tei2, Giovanni Satta2, Enrico Muselli2  
1Hong Kong Polytechnic University, Hong Kong, 2University of Antwerp, Belgium, 3Hong Kong Baptist University, Hong Kong, 4The Chinese University of Hong Kong, Hong Kong

Bulk Shipping Operations  
R. Shibasaki  
Research on Fleet Planning Method and Application of Bulk Industrial Transport (O)  
Dapeng Yang  
China Waterborne Transport Research Institute, China

Route Choice of Bulk Carrier on a Global Scale and Model Development: Focusing on the Suez Canal (E)  
Ryuichi Shibasaki, Hiroki Terashita, Tsusho Azuma, Tetsuo Yoshida1, 2  
Nietoan Institute for Land and Infrastructure Management (NLM), Japan; Japan Sediments Management Association, Japan; Japan Port Consultants, Ltd., Japan

Forecasting Volatility of Tanker Freight Rates based on Asymmetric Regime-Switching GARCH Models (E)  
Philipp Lauenstein1, Thomas Walter1  
Hekrodt-Schmitt-Universität, Germany; Hamburg School of Business Administration, Germany; Technische Universität Dresden, Germany

Vessel Strategy for Greenfield Oil & Gas Project (E)  
Ioannis N. Lagoudis, Vivek Subramanian, Nour Aalard S. Naution  
Malaysia Institute for Supply Chain Innovation, Malaysia

An Analysis on the Relationship between Risk Attitudes and Shipping Freight Markets (E)  
Koshin Tezuka, Masahiro Ishii1  
Sophia University, Japan; Nihon University, Japan

Session D4  
Chair: H. Psarafitis  
Optimal Speed & Network Configuration in Shipping  
Linor Service Network Design with Transit Deadline and Speed Optimization (O)  
Yan Zhang, Huaxiong Yang, Mingjun Jin  
Dalian Maritime University, China

Methodological Framework for Slow-Steaming Operations (O)  
Isamogu Doghnik, Nikita Nikitkos  
University of the Aegean, Greece

Contracts for the Shipping Industry: An Option Contracts Model (O)  
Alejandro Gomez Padilla1, Rosa C. González2, Fernando Alarcón2, Stefan Vög3  
1Universidad de Guadalajara, Mexico, 2Universidad de Los Andes, Chile, 3 Universidad de Chile, Chile; Hamburg University, Germany

A Game Theory Competition Analysis of Quadrupolistic Liner Container Shipping Market (O)  
Murat Aytemel, Evangelos Boulougouris, Osman Turan  
University of Strathclyde, United Kingdom

Research on Fleet Planning Method and Application of Bulk Industrial Transport (O)  
Dapeng Yang  
China Waterborne Transport Research Institute, China

Route Choice of Bulk Carrier on a Global Scale and Model Development: Focusing on the Suez Canal (E)  
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Koshin Tezuka, Masahiro Ishii1  
Sophia University, Japan; Nihon University, Japan
Session A5  
Commerzsaal  
Hamburg Chamber of Commerce  
Port Resilience  
Chair: P. Tseng

Session B5  
Freight Rate Modeling in Bulk Shipping  
Chair: R. Adland

Session C5  
Ports and Transport Networks  
Chair: C. Sys

Session D5  
Investing in Port Capacity from a Shipper and a Shipowner Perspective: the Case of Maasvlakte II (E)  
Chair: F. Parola

Session E5  
Container Terminal Management and Operations  
Chair: S. Segi

Session F5  
Maritime Transportation and Logistics  
Chair: R. Dekker

Session G5  
Investing in Port Infrastructure: The Case for Privatization (E)  
Chair: L. Tavasszy

Session H5  
No Session Scheduled

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**Session A5**  
**Commerzsaal**  
**Hamburg Chamber of Commerce**  
**Port Resilience**  
**Chair: P. Tseng**

- **Cyclone Risk Mapping for Critical Coastal Infrastructure: Cases of East Asian Seaports (E)**  
  Yunfeng Liu, Chengliang Zhang, Yanhui Liu, Lili Huang, Shaojun Yu  
  National University of Singapore

- **What a Case Study of the Port of Kaohsiung Reveals about the Challenges of Maintaining and Researching Port Safety**  
  (E)  
  Pei-Hung Tseng, Nick Pikfer2  
  Feng Chia University, Taiwain, 3Edinburgh Napier University, United Kingdom

The Regional Efforts of Port Metro Vancouver in Adapting to Potential Impacts Posed by Climate Change (O)  
Huiying Zhang, Koi Yu Adolf Ng  
University of Manitoba, Canada

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**Session B5**  
**Freight Rate Modeling in Bulk Shipping**  
**Chair: R. Adland**

- **Re-Examine the Shipping Freight Rate Stationarity**  
  (O)  
  Jiyang Li, Jing Yao  
  Shanghai University, Shanghai, China

- **Developing a New Freight Options Trading Strategy Using Artificial Neural Networks (O)**  
  Nikolaos, Mavrou, Dimitrios Lyridis  
  National Technical University of Athens, Greece

**Forecasting Container Shipping Freight Rates for the Far East - Northern Europe Trade Lane (O)**  
Zaifrogan Muster, Hasan Javadi Shamsan  
University of Agder, Norway, 4WU Wirtschaftsuniversität Wien, Austria, 5Copenhagen Business School, Denmark

- **Technical Trading Rule Performance in Drybulk Chartering (O)**  
  Roar Adland, Magnus Skvavlen  
  Norwegian School of Economics (NHH), Norway

- **A Pilot AHP Analysis of Lay-Up Decision Making in Bulk Market (O)**  
  H.A. Thaparoudou, Siti Peterson, Sanden  
  University of Aarhus, Denmark, 7Norwegian School of Economics (NHH), Norway  
  National Taiwan Ocean University, Taiwan

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**Session C5**  
**Ports and Transport Networks**  
**Chair: C. Sys**

- **Challenges and Opportunities ahead of the Suez Canal Project (E)**  
  Yasmine Rashid, Mohamed Ibrahim, Christa Syri, Eddy Van de Voorde, Thierry Vanelander  
  Technology and Maritime Transport, Egypt, 4University of Antwerp, Belgium

- **Free Ports: Towards a Network of Trade Gateways (O)**  
  Alexandre Lavras, Jean-Paul Rodrigue  
  Institut Pratique d’Enseignement et de Recherche (IPER), France, 7University of Antwerp, United States

**Chabahar Port vs. Casablanca Port: A Logistics Performance Comparison (O)**  
Jafar Sayar, Meyyam Fossal  
Chabahar Maritime University, Iran, 8University of Antwerp, Belgium, 9Delft University, The Netherlands

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**Session D5**  
**Investing in Port Capacity from a Shipper and a Shipowner Perspective: the Case of Maasvlakte II (E)**  
Chair: F. Parola

- **Final Impacts Posed by Climate Change (O)**  
  Shunsuke Sugi, Tamotsu Ninomiya, Hiroshi Kimoto, Kazuo Motono, 7University of Tokyo, Japan, 8Hakata Port Terminal Co., Japan, 9Ministry of Land Infrastructure, Transport, Tourism, Japan

- **The Regional Efforts of Port Metro Vancouver in Adapting to Potential Impacts Posed by Climate Change (O)**  
  Huiying Zhang, Koi Yu Adolf Ng  
  University of Manitoba, Canada

**The Liner Shipping Game TM (N)**  
Chair: L. Tavasszy

- **The Use of Serious Games in Port Investment: Open Issues and Peculiarities (O)**  
  Safaa A. J. Alfayyadh, Daniel S.H. Moon, Aykut Ölger  
  1California Maritime Academy, United States, 2SUNY Maritime, US, 3Aalborg University, Denmark, 4LinerGame, Denmark

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**Session E5**  
**Container Terminal Management and Operations**  
**Chair: S. Segi**

- **Box Dynamics: “Leaders”, “Followers” and Transmitting Mechanisms — An Inter-Sectional Analysis (O)**  
  Perez Paffo, Thomas Vitasse, Collis Teyy, Michael Bell  
  Institut Portuaire d’Enseignement et de Recherche (IPER), France, 2Hofstra University, United States

**Arrival Terminals with Short Lead-Time (O)**  
Dongsu Chen, Lixin Shen, 2Dalian Maritime University, China

**An Agent-Based Approach to Risk and Event Management in a Container Terminal (O)**  
Lorena Braszott, Maria Isabel Vega, Cristian Valdes, Arturo Cuevas  
Liverpool John Moores University, United Kingdom, 2Ministry of Oceans and Fisheries, Republic of South Korea

**Improving Container Yard Operations with the Prior Information of Trailer Arrival Date: A Practice at Port of Hakata (O)**  
Shunsuke Segi, Tamotsu Ninomiya, Hiroshi Kimoto, Kazuo Motono  
Hyogo University, Japan, Hakata Port Terminal Co., Japan, 9Ministry of Land Infrastructure, Transport, Tourism, Japan

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**Session F5**  
**Maritime Transportation and Logistics**  
**Chair: R. Dekker**

- **Measuring Fluidity in Maritime Supply Chains (O)**  
  Mary Brooks, Retired, Canada

**The Roles of Organizational Orientations in Implementing Effective Risk Management Strategies for International Logistics (O)**  
Dong-Wook Kwak, Anthony Beraford, Stephen Pettitt, Robert Mason, Vassilis Sanchez Rodriguez, C. Young-Joon Seo  
University of Limerick, Ireland, 7University of Antwerp, Belgium

**The Liability of the Carrier under the Rotterdam Rules (O)**  
Kiyuki Naoiwa, University of Exeter, United Kingdom

**Information and Communication Technologies in Freight Transport: a Taxonomy of Applications and Key Barriers (O)**  
Irina Dobrovolskaya, University of Bremen, Germany

**The Use of Serious Games in Synchronized Transport**  
Lei Tavasszy  
TNO, The Netherlands

**Serious Games in Maritime Transport (N)**  
Jürgen Weigel  
Fraunhofer CML, Germany
Round Table “Migration at Sea”
Commerzsaal, Hamburg Chamber of Commerce

Elda Belja, IMO International Maritime Law Institute
Elda Belja read law at the University of Athens, Greece. She obtained a Master’s Degree in International Maritime Law (with distinction) at the IMO International Maritime Law Institute (IMLI). She was awarded the Sasakawa Prize for the Best Performing Nippon Foundation Scholar. In 2008, she joined the IMLI where she lectures in various areas of international maritime law. She has been a visiting lecturer at the International Ocean Institute (IOI) and has acted as an examiner for the Faculty of Laws, U of Malta. She has also participated in several international conferences and workshops. Ms. Belja joined the IMO’s Roster of Experts in 2012. Ms. Belja is a contributor to and a co-editor of the 2nd Volume of The IMLI Manual in International Maritime Law.

Svein Hapnes, UNHCR
Svein J Hapnes is currently the Supply Chain Manager for the challenging UNHCR Greece operations, supporting around 50,000 refugees in over 40 mainland and island locations since Jan 2016. He has previously been on a 5 month deployment as the Regional Supply Chain Coordinator for the Syria Crisis based in Jordan in 2012-13. In the UN he has held positions as UNHCR Supply Chain Senior Business Analyst, UNHCR Logistics Emergency Response Coordinator, UNICEF Shipping Manager and UNPROFOR Transport Operations Officer, Sector N-E in the 90ties. Prior to this, he was for almost 20 years serving as an officer in the Norwegian Army, nationally and internationally, as well as holding posts in companies as NSB Gods (Railway) and Nor-Cargo (now Bring Logistics).

Jens Pagotto, MSF
Currently the Head of Mission for Médecins Sans Frontières Search and Rescue mission in the Central Mediterranean. Jens Pagotto is a Humanitarian Practitioner who has been working in conflict and emergencies situations worldwide since 2008, including in major emergencies in Haiti in 2010 and Syria in 2013. Médecins Sans Frontières vessels in the Central Mediterranean rescued over 20,000 in 2015 and a further 7,322 people during their operations from April to June 2016.

Dr. Patrick Verhoeven, ECSA
Patrick Verhoeven is Secretary General of the European Community Shipowners’ Associations (ECSA). Based in Brussels, the organisation represents the national shipowner associations of the EU and Norway. Prior to joining ECSA in August 2013, Patrick served thirteen years as Secretary General of the European Sea Ports Organisation and seven years representing the interests of terminal operators, ship agents and silo companies at EU level. He started his career working for the Antwerp-based ship agent Grisar & Velge. Patrick holds a PhD in applied economics and a bachelor in law from the University of Antwerp. In 2015 he joined the university’s Centre for Maritime and Air Transport Management (C-MAT) as guest lecturer. Patrick lives in Antwerp with his wife and three children.

Moderator: Dr. Maria Besiou, KLU
Dr. Maria Besiou is Associate Professor of Humanitarian Logistics at Kühne Logistics University. She received her Ph.D. in Mechanical Engineering and Operations Management from Aristotle University of Thessaloniki (AUTH) in Greece. She holds a Diploma in Mechanical Engineering from AUTH Before joining KLU she worked as a Postdoctoral Research Fellow at the Social Innovation Centre at INSEAD, France.
Session A6
Chair: H.E. Haralambides
Presentation of the Finalists of the 6th MEL PhD Prize

Session B6
Chair: R. Tovar de la Fe
Marit Port: Cuba’s Gateway to New Prosperity? (O)
Kerstin Wietling
Hamburg School of Business Administration, Germany
Mexican Ports in View of the Panama Canal Expansion (O)
Carlos Martínez Peyreyregue
Instituto Mexicano del Transporte (IMT), Mexico
Metafrontier Analysis on Productivity for West Coast of South Pacific Terminals (O)
Beatriz Tovar de la Fe, Victor Chang
Los Palmas University, Spain; Supervisory Agency for Investment in Public Transport Infrastructure (OSITRAN), Peru
Choice of Hong Kong in War of the Two Big Canals (O)
Sung Woo Lee, Soo Yong Shin, Hong Won Yi
Korea Maritime Institute, Republic of (South) Korea

Session C6
Chair: H.D. Haasis
E-Learning in (Maritime) Supply Chain Security – New Risk Assessment Models and Introductory Empirical Analysis (O)
Michael Wielandt
Kühne Logistik-Universität, Germany
Visibility – A Driver for Supply Chain Resilience (O)
Rainer Müller, Nils Meyer-Larsen & Laura Maier, Institute of Shipping Economics and Logistics, Germany
Gerald Graß, Hans-Dietrich Haasis
Verein der Wirtschaftsingenieure für Verkehrswesen, CERI, University of Bremen, Germany
A Logit Model of MLC Vessel Detention Probability (O)
Helen Thanospolou, Io Retso, Amir Alizadeh
University of the Aegean, Greece; City University of London, United Kingdom
Dynamic Risk Management of Chemical Supply Chains (O)
Chaoyi Li, Jun Ren, Jin Wang, Zaili Yang
Liverpool John Moores University, United Kingdom
E-Learning to Global Cruise Oil Markets (O)
George Klauser, Alex Costabris
University of Greenwich, United Kingdom

Session D6
Chair: A.C. McKinnon
The Implications of the Lower Sulphur Limits on Ro-Ro Shipping in Northern Europe (O)
Thaulis De, Harlan Parfitt
Technical University of Denmark, DEN
Bilateral Dry Cargo Trade in Mediterranean, Black Sea and Continent Europe: A Short Sea Shipping Approach (O)
Ismail Bıgat Cristl, Enis First Akgül
‘Dokuz Eylül University, Turkey; Istanbul Shipping, R&D and Consultancy Corporation, TUR; ‘Bendirmin Önleyि Elektrikli Uydu Turkey
Port Choice and the Evolution of Fender Systems: the Case of Norway (O)
Morten Swindells, Harald Hoff
‘Malme University College, Norway; ‘Edinburgh Napier University, United Kingdom
A Multi-Criteria Analysis Method to Measure Island Connectivity (O)
Maria Lekakou, George Remoundos
University of the Aegean, Greece
Slow Steaming and Competitiveness of European Short Sea RORO Shipping (O)
Zoheeb Razzaq, Richard Bergveld, Johan Wonenburg, Christian Finnengård, Jaakon Kalland
University of Gothenburg, Sweden; ISIS Export Gateway to Global Crude Oil Markets (O)
Liverpool John Moores University, United Kingdom

Session E6
Chair: A. Tel
Container Ocean-Transportation System Design with the Factors of Demand Fluctuation and Choice Inertia of Shippers (N)
Kang Chen
Dalian Maritime University, China
Innovative Solutions for Enhancing Customer Value in Liner Shipping (O)
Jasmine Siu Lee Lam, Xiaolan Zhang
Nanyang Technological University, Singapore
New Distribution-Free Models for Liner Fleet Deployment (O)
Marilyn Ng
Old Dominion University, United States
A Costing Model for Empty Container Movements in Liner Shipping (O)
Husayn Caner, Haluk Demir
Piri Reis University, Turkey; ‘Yasar University, Turkey
Fleets to the Bones: the Local Determinants of Interregional Shipping Flows (O)
César Doornier, Claudio Ferraro, Hidehazu Inoh, Alessa Teli
Cedefop, National Centre for Scientific Research, France; University of Genoa, Italy; ‘Waseda Gakushuin University, Japan; ‘Newcastle University, United Kingdom

Session F6
Chair: T. Vanelstander
Digital Innovation in the Port Sector: Objectives, Barriers and Facilitators (E)
Valentin Carlin, Christa Syss, Thierry Vanelstander, Athena Roumboudis
University of Antwerp, Belgium; University of the Aegean, Greece
The Value of a Centimetre: Improving Shipping Efficiencies Through Under keel Clearance Management Technology (N)
Brendan Curtis
OMC International, Abbottsford, Australia
Innovation along the Maritime Supply Chain: Aligning Strategies with Outcomes. (N)
Michela Astarita, Christa Syss
Kühne Logistics University, Germany; University of Antwerp, Belgium
Take-up of Innovative Energy Efficiency Technologies in Maritime Transport (O)
Nihat Al.wikipedia
UCL Energy Institute, United Kingdom
Exploring the Relationship Marketing Strategy of Ports (O)
Aylin Caliskan, Sohn Eun
‘Yasar University, Turkey; ‘Dokuz Eylül University, Turkey

Session G6
Chair: T. Vanelslander
Targeting the Young Cruisers Market: Motivations and Behavioural Intentions. (O)
Giovanni Satta, Luca Perisco, Francesco Panella, Lara Penzo, Enrico Musso
University of Genoa, Italy; CIELI - Italian Centre of Excellence for Integrated Logistics, Italy
A System Approach for Cruise Port Attractiveness: an Evaluation of Turkish Cruise Ports (O)
Nakie Aşkın, Erhan Bülent Kara
‘Dokuz Eylül University, Turkey; ‘Bendirmin Önleyि Elektrikli Uydu, Turkey
The Efficiency Analysis of Major Cruise Lines (O)
Yong Tae Chang, Sooyoung Lee, Hyo Soon Park
Kih University, Korea
Preferences of the Potential Cruise Ship Users in Japan (O)
Tomoya Kawasaki, Tomoyuki Todoroki, Go Komatsu, Takumi Matsuda
‘Tokyo Institute of Technology, Japan; ‘Nihon University, Japan; ‘Japan Maritime Centre, Japan

Session H6
Chair: A. Palis
No Session Scheduled
DAY 3

26 August | 09:00 - 19:00

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Technical Tour I: Airbus Factory Tour</td>
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<tr>
<td></td>
<td>(registration required)</td>
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<td></td>
<td>Hamburg is the headquarters of Airbus in</td>
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<td>Germany and the largest Airbus site in</td>
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<td></td>
<td>Germany. The company employs around 12,500</td>
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<td>people and plays a key role in the</td>
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<td>development and manufacturing of all</td>
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<td>Airbus aircrafts. The company is also</td>
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<td>one of the biggest employers in the</td>
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<td>region. Over 500 apprentices start their</td>
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<td></td>
<td>careers each year at Airbus in Hamburg.</td>
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<td></td>
<td>Enjoy a special tour of the Airbus</td>
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<td></td>
<td>Factory.</td>
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<tr>
<td>09:00</td>
<td>Technical Tour II: Container Terminal</td>
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<td>&amp; Harbour Barge Tour (registration</td>
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<td>required)</td>
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<tr>
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<td>After all the interesting sessions it is</td>
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<tr>
<td></td>
<td>now time to explore Hamburg and its</td>
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<tr>
<td></td>
<td>famous harbour. Be part of a tour of the</td>
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<tr>
<td></td>
<td>container terminal and get to see all the</td>
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<td>sights of Hamburg during a harbour barge</td>
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<tr>
<td></td>
<td>tour.</td>
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<tr>
<td>10:00</td>
<td>IAME Council Meeting II (invitation only)</td>
</tr>
<tr>
<td>13:00</td>
<td>Lunch</td>
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<tr>
<td>14:00</td>
<td>Closing Ceremony</td>
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<tr>
<td>14:30</td>
<td>IAME AGM (IAME members only)</td>
</tr>
</tbody>
</table>

**Building of KLU Kühne Logistics University**

**Opening Ceremony Keynote-Speaker Peter Lorange**

**Keynote Speaker Peter Lorange** is Honorary President of the Lorange Institute of Business Zurich and he was the owner of this institution from 2009 until 2015. Mr. Lorange was president of the International Institute for Management Development, or IMD, from July 1, 1993 to April 1, 2008, and until July 1, 2009, he was Professor of Strategy at IMD and held the Kristian Gerhard Jebsen Chair of International Shipping. He was formerly president of the Norwegian School of Management in Oslo.

Mr. Lorange was affiliated with the Wharton School, University of Pennsylvania for more than a decade in various assignments, including director for the Joseph H. Lauder Institute of Management and International Studies and The William H. Wurster Center for International Management Studies, as well as The William H. Wurster Professor of Multinational Management. He has also taught at the Sloan School of Management (M.I.T.), IMEDE (now IMD), and the Stockholm School of Economics.

Mr. Lorange serves on the board of directors of several corporations including Marsoft International A/S, Preferred Global Health and Global Praxis. He received his undergraduate education from the Norwegian School of Economics and Business, was awarded a Masters of Arts degree in Operations Management from Yale University and his Doctor of Business Administration degree from Harvard University.

**Hamburg - Planten un Bloomen**
**Prize Awards during IAME 2016 Hamburg**

The Palgrave-McMillan Best Conference Paper Award

The Best Conference Paper Award is sponsored by Palgrave-McMillan and is awarded to the paper that has received the highest score in the paper review process. The award is accompanied by a financial reward of £ 250.

The KLU Young Researcher Best Paper Award

The Young Researcher Best Paper Award is sponsored by the Department of Logistics of the Kühne Logistics University and is awarded to the paper with the highest review score obtained in the review process and whose main author is not older than 35. The award is a symbol of the effort that the KLU places on fostering emerging talents in maritime logistics. The award is accompanied by a financial reward of £ 400.

**Martin Sgut Award - best paper on Latin America and the Caribbean**

The Martin Sgut Award is given to the best paper on maritime transport, ports and logistics on Latin America and the Caribbean, to commemorate the late Capt. Martin Sgut, who was a president of the InterAmerican Maritime Organization (OAS), the Interamerican Development Bank (IDB), and worked in various capacities with international and regional agencies such as the United Nations Economic Commission for Latin America and the Caribbean (UNECLAC), the Organisation of American States (OAS), the Interamerican Development Bank (IDB), the World Bank, GTZ, the United Nations Commission for Trade and Development (UNCTAD) and the International Labour Organization (ILO) as well as the private sector. The prize consists of a mate, the traditional South-American drink.

**IAME Official Journals**

- Maritime Economics & Logistics
- Maritime Policy & Management
- Maritime Business Review
- Journal of Commodity Markets
- Journal of Regional Research / Investigaciones Regionales
- Maritime Policy & Management
- Maritime Economics & Logistics
- Journal of Commodity Markets
- Journal of Regional Research / Investigaciones Regionales
- Maritime Policy & Management
- Maritime Economics & Logistics
- NETONOMICS: Economic Research and Electronic Networking
- Ocean Yearbook
- Research in Transportation Business and Management

**Associated Journals and Special Issues**

A selection of papers presented at IAME will be considered for publication in selected volumes and special issues in the following journals:

- Asian Journal of Shipping and Logistics
- International Journal of Shipping and Transport Logistics
- International Journal of Transport Economics

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**Journals**

- **IAME Official Journals**
  - Maritime Economics & Logistics
  - Maritime Policy & Management
  - Maritime Business Review
  - Journal of Commodity Markets
  - Journal of Regional Research / Investigaciones Regionales
  - Maritime Policy & Management
  - Maritime Economics & Logistics
  - NETONOMICS: Economic Research and Electronic Networking
  - Ocean Yearbook
  - Research in Transportation Business and Management

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**Acknowledgements**

In the continuous effort to improve the quality of peer-review during the IAME conference, the IAME 2016 Hamburg Organizers decided to award a small token of appreciation to the reviewers, whose efforts during the review process have been particularly noteworthy.

In addition to the previous conference awards two additional prizes are awarded during IAME 2016:

- The 6th MEL PhD Competition (2013-2016)
  - In pursuit of its commitment to promote quality research and strengthen research links, particularly among young researchers, Maritime Economics and Logistics (MEL) has organized its sixth Competition for the best PhD theses that have been successfully defended during the period 1st April 2013 to 30th May 2016. Submissions are peer-reviewed by members of the MEL Editorial Board and the best PhD thesis award is accompanied by a prize of £ 1,000.

- The MPM Best Published Manuscript Award 2015
  - The Maritime Policy & Management best manuscript award is an annual award for the best manuscript published in print by Maritime Policy & Management in the previous year. The award consists of £ 1,000 (sponsored by Taylor and Francis).

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**Authors’ Index (R–Z)**

- Rehmantula, Nishatabbas (F6)
- Reinhardt, Daniel (G2)
- Remoundos, George (D6)
- Ren, Jun (C6)
- Retsou, Iro (C6)
- Riahi, Ramtin (E2)
- Roojanapradied, Rahuth (G1)
- Rodrigue, Jean-Paul (E1, C5)
- Roe, Michael (G2)
- Roh, Saeyeon (F3)
- Ross, Haran Hauke (C2)
- Roumboutosos, Athena (F6)
- Ruggunan, Shaun (E4)
- Ryttre, Niels Gorm (H3)
- S
- Saeed, Naima (A1, H1)
- Sahin, Bekir (D1)
- Sahoo, Satya (D1)
- Sanchez-Rodriguez, Vasco (F5)
- Satta, Giovanni (A4, D5, G6)
- Sayareh, Jafar (C6)
- Scharf, Katrin (C1)
- Schinas, Orestis (D1, C3, E4)
- Schøyen, Halvor (C4)
- Schramm, Hans-Joachim (E1, B5)
- Segi, Shunsuke (D2, E5, E5 (chair))
- Soo, Young-Joon (A3, F5)
- Sequeira, Cheryl Basil (A1)
- Sek, Jin (E3)
- Shen, Lixin (E3)
- Shibasaki, Ryuichi (F4, F4 (chair))
- Shen, Lixin (E3)
- Shi, Tzu-Lin (E4)
- Shim, Boo Yong (B5)
- Shinde, Masata (A4, A4 (chair))
- Shokirov, Petros (D3)
- Shojaei, Magnus (B5)
- Smirli, Yiannis (B3)
- Solak Fiskin, Cemile (H3)
- Solteszova, Veronika (H3)
- Solvang, Helene (D3)
- Song, Dong-Wook (A1, C3)
- Sorn-Friese, Henrik (B2)
- Sowa, Victor (C1)
- Speegler, Thomas (B2)
- Stavrou, Christodoulos (B4)
- Strandenes, Siri Pettersen (B5, H3, H3)
- Subramanian, Vivek (F4)
- Sun, Maojin (G3)
- Suthiwatanaumpit, Kumanon (C1)
- Suzuki, Satoshi (D2)
- Svidndal, Morten (D6)
- Sys, Christa (C5, C5 (chair), F6, F6)
- Tarn, Ka-Chai (E4)
- Tanaka, Hidenri (B1)
- Tanyeri, Mustafa (A2)
- Tavasszy, Lorant (G5, G5 (chair))
- Tel, Alesse (F3, A4, D5, E6, E6 (chair))
- Taranishi, Hiroyuki (F4)
- Teye, Collins (C1, E5)
- Tezuka, Koichiro (F4)
- Thanopoulou, Helen (B5, C6)
- Theo, Notteboom
- Todoroki, Tomoyuki (G6)
- Tovar de la Fe, Beatriz (B6, B6 (chair))
- Tsamourgelis, Ioannis (E3, E5)
- Tseng, Po-Hiang (A5, A5 (chair))
- Tsigas, Mike C. (C2)
- Tseleousmas, Vangelis (B3)
- Tsoukridis, Dimitris (B4)
- Turan, Osman (C4, D4)
- Tsitsihsky, Yuriy (E3)
- Tzanatos, Ernestos (E2)
- Ullitenen, Sjaarehui (D5)
- Ural, Moritz (D1)
- Varefi, Mohammad (C4, F1)
- Valantasis-Kanelos, Nikolaos (D3)
- Valdes, Cristian (E5)
- Vallejo-Pinto, Jose Angel (C1)
- van Balen, Mitchell (G2, G2)
- Van de Voerde, Eddy (C5, D5)
- van der Horst, Martijn (G2)
- van der Lugt, Larissa (A1)
- van Hassel, Edwin (D5)
- Vanelanderlinder, Thierry (C5, D5, F6, F6 (chair))
- Varriale, Luisa (A4)
- Vega, Aprna (H1)
- Vega, Maria Isabel (E5)
- Viertli, Inge (C1)
- Vitsounis, Thomas (E3, E3, E5)
- Vlahos, Dimitrios (D4)
- Vonk, Indra (A9)
- Vol, Stefan (D4)
- Yoomans, Jos (F1)
- W
- Walter, Thomas (F4)
- Wang, Grace (D1, A3)
- Wang, Jiaoying (B5)
- Wang, Jin (E2, C6)
- Wang, Qing (H1)
- Wang, Shuaian (B3)
- Wang, Yuhong (E2)
- Weckhardt, Michael (G3, C6)
- Weigel, Jürgen (G5)
- Wieting, Kerstin (B6)
- Wilk, Christel (B1)
- Wilmsmeier, Gordon (E1, B2)
- Woo, Su-Han (C2)
- Woo, Jong Kyun (B2, A3 (chair))
- Woyanos, Johan (D6)
- Wu, Jialu (F4)
- Wu, Xiaofan (H2)
- X
- Xiaohong, Liang (E3)
- Y
- Yalamah, Shmuel (E1)
- Yamamoto, Yutaka (E1)
- Yang, Dong (B3)
- Yang, Hualong (D4)
- Yang, Zaili (D1, E2, E5, C6)
- Yang, Zhisen (D1)
- Yang, Quiping (F4)
- Yang, Dong (B3)
- Yang, Jiaying (B5)
- Yang, Wei (D4)
- Yang, Wei (D4)
- Yee, Jun (E1)
- Yu
- Yu, Jun (E1)
- Z
- Zeng, Qingcheng (H1)
- Zhang, Di (D1)
- Zhang, Huiying (A5)
- Zhang, Wei (F3)
- Zhang, Xunlan (B1, E6)
- Zhang, Yan (D4)
- Zhijun, Zhang (E3)
- Zis, Thalis (D6)
- Zurheide, Sebastian (H3, G5)
The German Maritime Arbitration Association – short: GMAA – offers a tailored out-of-court procedure for the worldwide maritime industry to settle shipping disputes both in German and English. The GMAA is qualified, acknowledged, legally binding, unbiased, fast, efficient and works at reasonable and transparent costs.

The GMAA wishes all IAME members a successful conference and a pleasant stay in Hamburg.

GERMAN MARITIME ARBITRATION ASSOCIATION
International Maritime Dispute Resolution Made in Germany

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2016 Annual Conference of the International Association of Maritime Economists, 23 - 26 August 2016, Hamburg, Germany

Responsible:

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