

# CY TUNG INTERNATIONAL CENTRE FORMARITIME STUDIES ANNUAL REPORT

# 2011-2013



This Report aims to outline the development and performance of C.Y. Tung International Centre for Maritime Studies (C.Y. Tung ICMS) in 2011-2013 (July 2011 to June 2013).

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# **About C.Y. Tung International Centre for Maritime Studies**

#### Background

With the passion for creating a world-class heartland of maritime studies, education and consultancy in the Asian region, the Department of Logistics and Maritime Studies (LMS) at The Hong Kong Polytechnic University (PolyU) established the International Centre for Maritime Studies (ICMS) in 2005.

Developed under PolyU's Area of Strategic Development (ASD), Scheme, ICMS is the first of its kind in Hong Kong.

The founding of ICMS also underlines the determination of PolyU and the Department to play an essential role in supporting China's 11th Five-Year Plan which has identified logistics as a major strategic direction of national economy and its commitment to the development of three major logistics and portal regions (i.e. Pearl River Delta, Yangzi River Delta, and Bo-Hai Gulf). At the same time, ICMS strives for supporting Hong Kong to reinforce its role as a world-renowned international maritime Centre.

Since its establishment, ICMS has actively conducted various activities in the well-defined strategic areas, including research, teaching and consultancy, with encouraging results accomplished. In 2007, ICMS was named after the late Mr C.Y. Tung as the C.Y. Tung International Centre for Maritime Studies (董浩雲國際海事研究中心), in appreciation of a pledge of HK\$10 million from The Tung Foundation for the Centre's further advancement.

With the generous donation, ICMS undertook an expansion in the academic year of 2007/2008. Resided on the PolyU campus, the renovated Centre engages an area of approximately 530 square metres on the 4/F of CD Wing. With enhanced facilities, it gears towards providing maritime resources and support for the Department's students, academics, industrial partners and the maritime community as a whole.

# **Our Mission & Objectives**

Since its inception, the Centre has had a very clear mandate to establish itself as a World-Class Centre for Maritime Studies, Education and Consultancy. To achieve this mission, the Centre is dedicated to:

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- Undertake application-oriented research in shipping, maritime and supply chain logistics, so as to share up-to-date data and knowledge with the academia, the industry, and policymakers. Areas of interests include: Port/airport and transport policy research, Marine risk and insurance, Maritime environment protection, Maritime operations technology and Maritime law and legal service;
- Provide quality teaching resources in maritime education and
- Render professional training and consulting services in the field of shipping and supply chain logistics from both management and economic perspectives, bridging the academia with the maritime community.

## Our Work

The Centre aims to provide both a quality and comprehensive maritime education and engage in application-oriented research, professional training and consulting activities in shipping, maritime and supply chain logistics from both management and economic perspectives. Our mission is to become a world-class centre for maritime studies, education and consultancy, as well as further strengthen Hong Kong's position as a premier international maritime centre. The regular work of the Centre includes conducting pioneering research on container port productivity, port policy, shipping operations and management, and low carbon logistics, as well as promoting collaboration between industries, government agencies, and academic organisations. In addition, the Centre provides training courses and jointly organises the International Forum on Shipping, Ports and Airports (IFSPA) and seminars with the Department of Logistics and Maritime Studies.

#### **Our Structure & Organization**

The Centre is governed by the Steering Committee (chaired by Dr C.C. Tung, The Tung Foundation's Representative) which also serves to provide guidance and direction on its development.

#### Membership 2011 - 2013

Chairman Dr Chee-chen Tung, SBS, JP (Donor representative, The Tung Foundation)

Mr Alan Tung (Donor representative, The Tung Foundation)

Prof. Philip C.H. Chan (Deputy President and Provost, PolyU)

Prof. Chung-Lun Li (Acting Director of C.Y. Tung ICMS and Head of LMS, PolyU) Mr Andy Tung (Donor representative, The Tung Foundation)

Prof. T.C. Edwin Cheng (Dean, Faculty of Business, PolyU)

# **Our Operational Management**

The organisational structure and operational management of the Centre has followed that of the previous year for stable growth and development. The Acting Director (Prof. Chung-Lun Li) oversees the strategic development and implementation of the Centre, with Dr T.L. Yip as Associate Director responsible for academic and industrial matters. The administrative and technical staff of the Centre supported its daily operations, encompassing research and training initiatives, funding bidding, marketing activities, conference organisation and laboratories administration.



# **Teaching & Learning**

With a view to further augmenting the teaching and learning activities of LMS, the Centre's laboratories (Marine Simulation Laboratory, GMDSS Simulation Laboratory and Maritime Information Technology Laboratory) supported more classes, tutorials, demonstrations and/or orientations arranged for the following subjects, on top of the regular computing services offered to LMS students.

#### **Marine Simulation Laboratory**

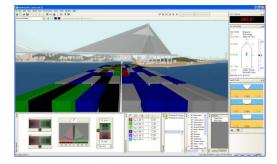
The laboratory, with the projection of realistic visual on plasma display and the installation of a set of ship-handling simulator comprising a wide range of navigational controls, aims to create a virtual marine environment for ship handling training, manoeuvre rehearsal, ship performance and operational assessment, and so on. Software installed encompasses: Navigation simulator, Port simulation, Maritime traffic risk simulation, Maritime environment/pollution protection simulation, Maritime search and rescue simulation and Ship Simulator Extremes.

#### **GMDSS Simulation Laboratory**

The laboratory is equipped with Poseidon Global Maritime Distress and Safety System (GMDSS) simulation software which facilitates students to acquire a broad concept of shipboard communication systems. Another purpose of the laboratory is to provide students with hands-on experience of modern shipboard electronic navigation systems through the use of Transas navigational simulation software with upgraded ECDIS feature and Transas AIS receiver. With the aid of communication and navigation simulation exercises, students will be equipped to easily acquire practical knowledge on managing vessels safely and efficiently.

#### **Maritime Information Technology Laboratory**

The IT laboratory provides computer facilities and maritime related software for the enhancement of students' computer literacy and knowledge in maritime research methodology and information technology. These include: FleXsim, Shipping software, IMO publications, World Shipping Encyclopedia (IHS Fairplay), MathCad and SPSS.









Periodically, there are research initiatives pursued under the auspices of the Centre and LMS. Furthermore, the Centre provides the Department with IT and Simulation Laboratory services to augment its maritime teaching and research activities as well as technical and administrative support (including purchasing and inventory management).

The Centre and the IMC-Frank Tsao Maritime Library and Research & Development Centre (IMCC) continue to serve as a bridge between LMS and the industry.

As the year progressed, the Centre had established good rapport and direct connections with other parties at PolyU. It supported a number of events organised by other units to open the Centre to the public and delegations for promoting PolyU and itself.



#### **Recent Upgrade**

The Marine Simulation laboratory has recently been upgraded with the latest Ship Simulator Extremes in 2013. Featuring a completely new and visually stunning ocean system, advanced dynamics and weather system, and more vessels and environments than ever before with full campaign missions based on real captains' stories, the Ship Simulator Extremes is the definitive simulator for any virtual ship captain. The simulator includes many of the famous harbours and other shipping locations from around the world.

The purpose of the GMDSS Simulation laboratory is to provide students with hands-on experience of modern shipboard electronic navigation systems through the use of Transas navigational simulation software with upgraded ECDIS features and Transas AIS receivers. With the aid of communication and navigation simulation exercises, students will be equipped to easily acquire practical knowledge on managing vessels safely and efficiently.



## 23rd Annual POMS Conference

Chicago, Illinois, USA April 20 to April 23, 2012

# **Academic Connections**

# **Co-track Chairmanship at POMS 2012 Chicago**



Established in 1989, the Productions and Operations Management Society (POMS) is committed to promoting and developing the highest standards of productions and operations management through education and research for its members.

Prof. Chung-Lun Li, Acting Director, was the Co-track Chair for the Scheduling and Logistics track at the 23rd Annual Production and Operations Management Conference held in Chicago in April 2012.

# Workshop on Stochastic Control and Financial Applications

The C.Y. Tung ICMS and the Logistics Research Centre collaborated with the Department of Applied Mathematics to organise a workshop on 20 and 21 December 2012.

hemed "Stochastic Control and Financial Applications", speakers and participants reviewed recent developments and explored new directions at the Workshop.

# Invited Research Seminar at Incheon National University, South Korea

Dr T.L. Yip, Associate Director, was invited to visit Graduate School of Logistics, Incheon National University, South Korea earlier this year.

Upon invitation, Dr Yip delivered a Research Seminar on "Port Productivity Benchmarking and Container Terminals" to the students and faculty members in May. He also visited the Shipping and Logistics Research Centre of the Chung-Ang University, and the Editorial Office of Maritime Policy and Management in July.

#### **Guest Editorship - The Asian Journal of Shipping and Logistics**

Shipping is important for international trade, economic growth and transportation. Themed "Shipping and Logistics in the Post Crisis Era", this special issue (Vol. 27, No. 2) is dedicated to the study of the shipping market after the financial crisis and aims at providing managers at shipping and logistics companies as well as their customers and policy makers with a better understanding of up-to-date knowledge and practices.

Dr T.L. Yip, Associate Director was awarded with service of excellence for his contribution as a Guest Editor.











# **Community & Publicity**

#### **Guest Lecture on Shipping Career 2011**

Mr James S.C. Tai, General Manger of Fleet Management Department of the OOCL was invited to deliver a Guest Lecture on Shipping Careers to the Students of the Department of Logistics and Maritime Studies on 10 November 2011.

The Guest Lecture provided up-to-date information about new challenges caused by environmental regulations, the current newbuilding/chartering market, as well as career prospects in the shipping industry.



## **Invited Seminar at Education and Careers Expo**





Dr T.L. Yip, Associate Director, has participated in the Education and Careers Expo in Shipping at the Hong Kong Convention and Exhibition Centre on 17 February 2011 and 10 February 2012.

The event was organised by the Hong Kong Trade Development Council (HKTDC). At the Expo, Dr Yip gave a talk on "Breaking the waves: The Career Options and Advancements of Maritime Services." This seminar addressed the current development and career opportunities in the maritime industries in the region.

The seminar was well-received and was considered to be a good platform for LMS and the Centre to promote their programmes and facilities to prospective students.

## **ICMS Participates in PolyU Education Info Day**



Apart from information display and individual consultation on programme choice and campus life, the Department of Logistics and Maritime Studies conducted a seminar on "Your Way to the World and Future". This was in addition to demonstration of the ship simulator and alumni sharing sessions at the Centre.



# **Journals & Publications**

## **IFSPA Special Issues**

A Special Issue of Maritime Policy & Management (MPM) named "Ports and the Environment" was published on 5 August 2013. It was attributable to the 5th International Forum on Shipping, Ports and Airports (IFSPA) 2012.

The goal of this special issue was to assemble research works in the forum area, highlighting the different issues and understanding the latest knowledge and practices concerning port and environmental issues. A total of seven academic papers including "Legal System of Compensation for Marine Oil Pollution in China", "Urban Road Congestion, Capacity Expansion and Port Competition: Empirical Analysis of US Container Ports", "Restructuring of Environmental Management in Baltic Ports: Case of Poland", "Regional Cooperation and Management of Port Pollution", "Environmental Efficiency of Ports: A Data Envelopment Analysis Approach", "Container Transshipment and Port Competition" and "How Would EEDI Influence Chinese Shipbuilding Industry?" were published in the special issue.

Special Issues of IFSPA 2012 and 2013 include:

- International Journal of Shipping and Transport Logistics, IFSPA 2012, Volume 6, Issue 4, 2014.
- Maritime Policy & Management, IFSPA 2012, Volume 40, Issue 5, 2013.
- Maritime Policy & Management, IFSPA 2013, Volume 41, Issue 3, 2014.

# IFSPA 2012 & 2013 Proceedings

To promote high-quality papers representing the IFSPA conference, two conference proceedings were issued during 2012 – 2013.

- IFSPA 2012 Conference Proceedings (ISBN: 978-962-367-757-8)
- IFSPA 2013 Conference Proceedings (ISBN: 978-962-367-767-7)



# **Maritime Insight**

The ICMS Maritime Insight (ISSN 2312-0606) is a quarterly publication launched in June 2013 under the C.Y. Tung International Centre for Maritime Studies. It aims to be a publication covering reviews of general interests to the profession with a special focus on different maritime concerns. The Maritime Insight endeavours to summarise efforts that are being done and to bring forward topics for further discussions in academic research whilst offering implications to industrial players and policy makers. The topics of the first issue were transport safety, maritime security and environmental management, topics which were widely covered in the 6th IFSPA held on 3-5 June 2013 in Hong Kong. Having had the environmental and security concerns in the maritime industry reviewed and discussed in the first issue of the ICMS Maritime Insight, the second issue comes with a mission to understand the advantages of applying corporate social responsibility (CSR) strategies in the shipping industry. Common practices of several shipping companies and terminals in Hong Kong as well as measuring methods in literatures are to be reviewed and summarised. Guidelines towards different dimensions of CSR will be outlined based on the aforementioned implications.



# **Research Initiatives**

# **Research Grants Council - General Research Fund (GRF)**

Prof. Chung-Lun Li and Dr T.L. Yip as Principal Investigators have successfully secured funding from the Research Grants Council (RGC) of the University Grants Committee of Hong Kong.

The two projects named "Scheduling in a Multitasking Environment" and "Analysis and Modelling of Marine Traffic Flow via Fluid Approximation" have been allocated over 1 Million of GRF for the period 2013-14 and 2012-13.

# **ICMS Policy Research Fund 2013**

To strengthen Hong Kong's status as an international maritime centre and a regional logistics hub in Asia, it is important for policy makers and stakeholders to understand the changing trends and their impacts on local economies and the logistics industry. With this view in mind, the Centre has set up an ICMS Policy Research Fund to support logistics and maritime policy research that addresses issues related to the Hong Kong hub and associated logistics issues.

"Strengthen the Hong Kong's Position of International Maritime Center by Completing the Logistics Network" by Prof. Hong Yan and "Examining the Economic Impacts of Transport Complex Economy" by Dr Venus Lun are the winning proposals which received, in April 2013, an amount of up to \$150,000 from the ICMS Policy Research Fund administered by the Centre.

The funded projects will deliver policy papers (to be posted on ICMS website) and a research proposal for Public Policy Research (PPR), Strategic Public Policy Research (SPPR), Collaborative Research Fund, or Theme-based Research Scheme.

The policy research outputs will be posted on ICMS website and reported at ICMS seminars. The industry practitioners, government officers, academic staff and students will be invited to attend the seminars.

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Call for Proposals
on Logistics and Maritime Policy Research
(15 January 2013)
CMS invites applications for policy research on logistics and maritime issues. One of the objectives of this funding is to help colleagues develop research preposale bable. Pelois: Research (PPR), Strategie Public Pelois; Research (PR), Stathbergies, Research (PR), Stathbergies, Research Schures in the areas of logistics of maritime study.
o strengthen Hong Kong 's status as an international maritime centre and a regional splitics has in Asia, it is important for policy makers and statichedders to understand to changing tenches and their imports or local accences and logatics methadistry. With its view in mind, TCMS internate to support proposals that address issues inlated to the long Kong hab and anaccintral Ogsities issues.
The finded projects should deliver policy papes (to be posted on ICMS website) and maarch proposal for Policy Folicy Kosearch (1978), Strange Policy Folicy Secarch (1978), Coldbarrine Research Hind, of Them-based Research Scheme, Coldbarrine Research Hind, and Research Scheme. The induct postchorene, presentement This induction edited and the strategies and the strategi
he Principal Investigator should be a full-time academic staff member in LMS. here is no limit for Co-Investigators, ICMS encourages offaboration amongst siyU departments, and it would be best to involve external members in the maritume effer.
In funding is on a competitive basis. The proposals will be reviewed by a funding summittee. Normally the funding amount will not exceed <u>HEDE 150.007</u> , depending the number of funded projects and other conditions. The maximum duation of the negative should be 24 months. The projects cannot be entended bayend the maximum nation, i.e. 24 months.
gplications and engines should be emailed to Dr Xinyu San of ICMS office (email: nrgs a stillpeylys adalab). The deadline of proposal automission is <u>28 February 2013</u> for expect the projects will commence on 1 <sup>-1</sup> June 2013.
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# "The Risks of Port Traffic Accidents"

After the interview on the Lamma Island Ferry Accident with the South China Morning Post in October 2012, Dr T.L. Yip published "The Risks on Port Traffic Accidents" on Port Technology International Journal (Edition 56) in December 2012.

The paper shared extensive analysis on reported accident rates including collision/contact, ground/stranding and nom-impact in Hong Kong between the years 1984 – 2011. Dr Yip raised concerns that a busy port like Hong Kong faces risks of traffic congestion and port traffic accidents. Improvements in the port traffic system and shipping management and operations should be enforced.



# **JFSPA 2012**

International Forum on Shipping, Ports and Airports

"Transport Logistics for Sustainable Growth at a New Level" 27- 30 May 2012 · Hong Kong, China



# International Forum on Shipping, Ports and Airports (IFSPA) 2012 27 – 30 May 2012



The Fifth International Forum on Shipping, Ports and Airports (IFSPA) 2012 returned to Hong Kong. Hong Kong, an important and leading international logistics and transportation hub with growing connections to the Chinese mainland, has had a number of logistics centres and parks recently established to support the rapid growth of manufacturing and services industries.

IFSPA 2012 is proud to have invited worldwide prestigious scholars and practitioners including Prof. Chin-Shan Lu, Prof. Theo Notteboom, Prof. Harilaos N. Psaraftis, Prof. Stefan Voss, Prof. Anming Zhang, Prof. Atsuo Suzuki, Prof. Young-Tae Chang, Dr Sam Bateman and Mr. Hannes Finkenbrink as Keynote and Featured Speakers for this event.

Themed **"Transport Logistics for Sustainable Growth at a New Level"**, IFSPA 2012 aimed to provide an interactive platform for international academics and industry practitioners to consider future issues related to global and regional maritime and aviation economics, policy and management. In the midst of growing environmental concerns, logistics should not only be effective, but it should also promote sustainable development and social responsibility. It is also an opportunity to create added value and innovative approaches, making the industry as climate-friendly and resource-efficient as possible. Every industry is developing new standards and guidelines. It is therefore the key objective of IFSPA to serve as an industry-wide initiative to formulate a new level of transport logistics, providing services for a sustainable society as well as further advancing academia-industry cooperation.

Chaired by Dr T.L. Yip, IFSPA 2012 attracted more than 110 academics and industry practitioners for an exchange of views and experiences on the relevant issues facing the sector. The forum further advanced academia-industry cooperation in relation to the theme Transport Logistics for Sustainable Growth at a New Level.

IFSPA 2012 was held from 27 to 30 May 2012 at the Hong Kong Polytechnic University. Keynote Speakers and participants came from 19 countries and territories including the USA, UK, Canada, Belgium, Germany, Switzerland, Poland, Italy, Greece, India, Taiwan, Singapore, Japan and South Korea.

# **IFSPA 2013**

International Forum on Shipping, Ports and Airports

"Trade, Supply Chains Activities and Transport: Contemporary Logistics and Maritime Issues" 3 - 5 June 2013. Hong Kong, China



# International Forum on Shipping, Ports and Airports (IFSPA 2013) 3 – 5 June 2013



The Sixth International Forum on Shipping, Ports and Airports (IFSPA) 2013 was held on the PolyU campus from 3 to 5 June. It was jointly organised by the Department of Logistics and Maritime Studies and the C.Y. Tung International Centre for Maritime Studies.

Themed **"Trade, Supply Chains Activities and Transport: Contemporary Logistics and Maritime Issues"**, the Conference was officially opened by Professor Edwin Cheng, Dean of the Faculty of Business; Professor Chung-Lun Li, Head of the Department of Logistics and Maritime Studies; the Honourable Frankie Yick Chi-ming, Legislative Councillor (Transport Constituency); and Mr Chun Lin Wang, Consultant of Pacific Basin Shipping Limited.

IFSPA was marked by its positioning as a platform for international academics and industrial practitioners to share and exchange views on issues related to the maritime, logistics and aviation sectors. This year's event served as an industry-wide initiative to debate new challenges and opportunities of current economic and financial issues. It advocated interdisciplinary business approaches to maximise global competitiveness and economic benefits among the transport logistics and trading industries worldwide.

IFSPA participants visited the Hong Kong Air Cargo Terminals Limited (Hactl) on 5 June morning. Hactl is the largest independent air cargo terminal in Hong Kong. During the visit, they toured the state-of-the-art SuperTerminal 1, the single largest multi-level air cargo terminal in the world and its cargo handling areas and facilities.

Chaired by Professor Chung-Lun Li, IFSPA 2013 was structured around three Keynote Sessions, one Industrial Session, two Special Sessions, 15 Parallel Sessions and one Technical Visit. The conference enabled the exchange of experiences and in-depth discussions on issues relevant to maritime and trade economics, policy and management within the current context of change at regional and global levels.

The conference attracted 120 delegates from 20 countries and territories including Australia, Belgium, Canada, Estonia, Finland, Germany, Japan, Korea, the Netherlands, Norway, Spain, Sri Lanka, Switzerland, Thailand, the U.K., and the U.S.



# **Visitation & Exchange**



- On 27 February 2012, a delegation from Baden-Wuerttemberg Cooperative State University (DHBW) Mannheim, Germany visited LMS. The delegation, comprised of 30 academics and students, attended a talk on Shipping Finance in Hong Kong and China.
- On 12 April 2012, a group of students from Aalesund University College in Norway visited LMS. LMS academics introduced PolyU, LMS and the Centre to the 30 visitors.
- On 13 June 2012, the Centre welcomed a group of students from Temasek Polytechnic in Singapore. The 40-member group showed keen interest in LMS's educational programmes on Global Supply Chain Management and International Shipping and Transport Logistics.
- On 12th January 2013, the 4th Annual Meeting of China Oceans Law Review (COLR) was held at PolyU. The publication of its 15<sup>th</sup> issue in Nov 2012 signified the committed and concerted efforts of the consortium in advancing ocean law research and studies among ICMS and three leading universities. Chief-edited by Dr Kuen-chen Fu, KoGuan Chair Professor of Law of the Shanghai Jiao Tong University, the journal (ISSN: 1813-7350) is published bi-annually in Hong Kong.
- Two representatives of the Transport and Housing Bureau of the HKSAR Government, Ms Julina Chan and Professor Anthony B. L. Cheung visited the Centre in March and April 2013 to discuss the development of our maritime and air transport education, student exchange activities, and executive training. Apart from meeting Department members, President Prof. Timothy W. Tong and University's Senior Management introduced Professor Cheung delegations to the University's latest developments. They also toured other PolyU's research facilities.

# 2011-2013





Faculty of Business 工商管理學院





■ International Centre for Maritime Studies ■ 董浩雲國際海事研究中心