Workshop Report on
MTCC-Asia Sub-Regional Workshop
5th - 7th December 2018, Putrajaya, Malaysia

This document was produced by the MTCC Asia for review by the IMO. It was prepared by MTCC-Asia as the contractor to the IMO for Capacity building for climate mitigation in the maritime shipping industry project.
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1 Executive Summary

With enormous support from IMO and EU, MTCC-Asia Sub-regional Workshop in Malaysia was participated by MSA officers, relevant stakeholders from Malaysia and neighboring countries in the sub-region, including China. The purpose of the workshop is to enhance the capacity in handling ship-borne GHG reduction and energy efficiency in the sub-regional area, in terms of IMO conventions, national regulations and practices, and the application of new technologies for ship borne GHG reduction.

The main objective of the workshop is to share the knowledge and experience in the context of the relevant IMO regulations regarding energy efficiency and management. The workshop is also expected to serve to establish strong links between MTCC-Asia and the wider region. The workshop consists of presentations, case studies, and seminars.

Through a three-day workshop, most of the participants, by means of seminar, lecture, discussions and country report, were refreshed up with latest movements and approaches for implementing the trim optimization and ship fuel consumption data collection. Consensus was reached on the necessity of green shipping initiated by IMO and on the meaningful work carried out by MTCC Asia.

25 participants from China, India, Indonesia, Malaysia, Sri Lanka and Thailand attended the workshop. A seminar on the current needs analysis, challenges and solutions for GHG control and EE was made, which would help achieve the long-term goal of the workshop to raise the awareness of energy efficiency policies and technologies in the maritime industries hence implement IMO instruments and methodologies on Energy Efficiency to mitigate climate change.

2 Date and Venue

The workshop took place during 5th to 7th December 2018 in Putrajaya, Malaysia.

3 The speakers of the opening ceremony

Mr Mohd Khairul Adib Abd Rahman, Deputy Secretary General (Policy), Ministry of
Transport Malaysia

Mr. Ruan Wei, Head of Maritime Technology Cooperation Centre - Asia (MTCC-Asia)

Mr. Zhao Shuo, Deputy Chief of China Port State Control Ningbo Office, China MSA

Ms. Yasmin Mohd Hasni, Marine Officer, Marine Department Malaysia

Mr. Wang Deling, Technical Officer, MTCC-Asia

4 Agenda

A brief agenda is shown as follows (attached as Annex 1):

Day1:
- Opening Ceremony
- Briefing on GMN & MTCC-Asia
- Updates on IMO Conventions, practices and trends for GHG control and Energy Efficiency

Day2:
- Key technologies for GHG control and EE–outlines, comparisons and outlook, and industrial activities
- Case Study in MTCC-Asia: Utilization of trimming optimization technologies / fuel consumption data collection technologies

Day3:
- China’s efforts on GHG control and energy efficiency
- Glomeep review and Malaysia’s experiences
- Seminar: Needs analysis, challenges and solutions for GHG control and EE
- Closing ceremony

5 Participants

5.1 Participants list
25 participants from China, India, Indonesia, Malaysia, Sri Lanka and Thailand attended the workshop. They are 11 women and 14 men. A signature list for all participants is as below. The list of participants is attached as Annex 2.

5.2 Participants travel

In addition to the working staff of the Center, the workshop invited 3 China MSA officers and 4 MSA officials from the neighboring countries of Malaysia (name list attached). The costs and expenditures of the traveling of those participants, except 2 MSA officers, were sponsored by MTCC-Asia. The boarding passes and other documentation are attached as Annex 3.
6 The workshop

6.1 Opening Ceremony

RUAN Wei, the head of MTCC-Asia reviewed the establishment of MTCC-Asia under the auspices of IMO and EU and a series of accomplishments achieved and he expressed finally MTCC-Asia would be very much honored and happy to expand our co-operations with Malaysia, for the challenges of Green House Gas emissions and protecting the environment, and finally for a sustainable maritime Asia.

Deputy Secretary General (Policy) of Ministry of Transport, Malaysia Mr Mohd Khairul Adib Abd Rahman expressed warm welcomes to participants. He said "Ministry of Transport Malaysia is pleased to co-organise with Shanghai Maritime University, Maritime Technology Cooperation Centre - Asia (MTCC-Asia) for the Sub-Regional Workshop on Ship Energy Efficiency Technologies and Management."
6.2 Workshop Session 1(Day 1)

After the tea break, Mr. Ruan Wei gave a presentation briefing SMU, IMO MTCC-Asia and IMO GMN. He introduced the objectives, main functions, achievements and outcomes of MTCC-Asia and GMN.

The presentation covered the following aspects:

- Briefing on SMU: a “cradle of international shipping specialists”
- Briefing on IMO MTCC-Asia
- Elaborating on IMO GMN

After the lunch, Mr. Ruan Wei gave a presentation on “Updates on IMO Conventions, practices and trends for GHG control and Energy Efficiency.”

The presentation covered following aspects:

- Role of IMO
- Introduction to MARPOL 73/78
- ECA
Data collection

New GHG controlling technologies

Strategies, implementation, competitiveness and future development
6.3 Workshop Session 2 (Day 2)

For the morning session, Capt. Wang Deling gave a presentation on “Key Technologies for GHG control and EE onboard ships”. He introduced various technologies, most importantly, to make comparisons, so that the participants can decide on the applicable types of technologies in their country in future.

In his presentation, the following methods of reducing fuel consumption were introduced respectively:

- Trim optimisation
- Speed optimization
- Ballast water management
- Weather routing
- Hull and propeller roughness and fouling.
- Engines and machinery utilization management
- New clean energy

The afternoon session included two Case Study: “The utilization of trimming optimization technologies” and “The technologies applied for fuel consumption data collection”, presented by Wang Deling. He introduced the latest information and practices in MTCC-Asia pilot projects to the participants, focusing on the technological development.

For the first case study “The Utilization of Trim Optimization Technologies (TOT)”, Wang Deling gave an introduction from the following aspects:

- Advantages of “TOT”
- “TOT” theory
- “TOT” practice
- MTCC-Asia’ “TOT” scheme

For the second case study “The technologies applied for fuel consumption data collection”, Wang Deling gave an introduction from the following aspects:
IMO Data Collection System for Fuel Oil Consumption of Ships in MARPOL Annex VI
- 2016 SEEMP Guidelines
- 2017 Guidelines for Administration verification of ship fuel oil consumption data
- 2017 Guidelines for the development and management of the IMO Ship Fuel Oil Consumption database
- MTCC-Asia Pilot Project on Data Collection
6.4 Workshop Session 3 (Day 3)

For the morning session, Mr. Zhao Shuo, from China MSA gave a presentation on “China's efforts on GHG control and energy efficiency within MSA system”. The presentation covered the following aspects:

- Maritime sector in China and shipping emission status
- Introduction of China Maritime Safety Administration
- Practitioner, Facilitator, Forerunner: China’s Efforts on GHG emission control and energy efficiency
- IMO Initial Strategy

After the coffee break, Ms. Yasmin Mohd Hasni, from Marine Department Malaysia, gave a presentation on “Glomeep review and Malaysia’s experiences”. The presentation covered the following aspects:

- Where Malaysia is…
- How GloMEEP is implemented at National Level
- Summary of GloMEEP Project
- Overall Conclusion

The afternoon session was a Seminar on needs analysis, challenges and solutions for GHG control and EE chaired by Mr. Wang Deling. It was arranged to adopt a modern pedagogic way for information exchange, for the purpose of maximizing the efficiency of the training program in terms of recognizing the status quo and needs in the countries, as well as understanding the potential co-operations. Preliminary invitation and outline was sent to the participants on 30th November, 2018. During the seminar, the country reports were presented respectively by participants from different countries within Asian Region. The collection of all presentations by participants will be sent as attached.
6.5 Closing Ceremony

Ms. Zalikha Moslim, Principal Assistant Secretary, Ministry of Transport Malaysia, on behalf of the local organizer, gave the closing remarks on the closing ceremony of MTCC-Asia sub-regional workshop. After that, the participants received their participation certificates and gifts from MTCC-Asia during the closing session.
6.6 Evaluation Questionnaire

The evaluation questionnaire was distributed to the participants at the end of the workshop. It aims to inform more about the evaluation of MTCC-Asia Sub-regional Workshop in Malaysia, please see the sample of the Evaluation Questionnaire as below. And we collected most of documents from the participants, please see the summary of the Evaluation Questionnaire in Annex 4.

![Evaluation Questionnaire](image-url)
<table>
<thead>
<tr>
<th></th>
<th>How would you rate the following aspects of the presentations? (tick one box in each case)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Excellent</td>
</tr>
<tr>
<td>9</td>
<td>Design and structure</td>
</tr>
<tr>
<td></td>
<td>Clarity</td>
</tr>
<tr>
<td></td>
<td>Technical contents</td>
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<tr>
<td></td>
<td>Comprehensiveness</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>How would you rate the use of the following? (tick one box in each case)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Excellent</td>
</tr>
<tr>
<td>10</td>
<td>Course materials</td>
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<td></td>
<td>IMO reference materials</td>
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<td></td>
<td>Other resource materials</td>
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<td></td>
<td>Group and practical activities</td>
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<td></td>
<td>Field trips</td>
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</table>

**At the end of the activity**

<table>
<thead>
<tr>
<th>11</th>
<th>Please rate the lecturers with regard to the following (check one box in each case)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td>content of lecture</td>
</tr>
<tr>
<td></td>
<td>delivery of presentation</td>
</tr>
<tr>
<td></td>
<td>ability to transfer knowledge effectiveness in:</td>
</tr>
<tr>
<td></td>
<td>answering questions</td>
</tr>
<tr>
<td></td>
<td>suggesting solutions to issues</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>12</th>
<th>What topics were of most interest and relevance to you?</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>______________________________________________________</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>13</th>
<th>Are there any topics which should be added? Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If yes, please list them:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>________________________________________________</td>
<td></td>
</tr>
</tbody>
</table>

| 14 | Do you consider that the objective of the event was met? Yes | No |
| 15 | Are you likely to use the information you gained on the course when you return to work? Yes | No |
| 16 | Will you have the opportunity to transfer the knowledge gained to your colleagues at work? Yes | No |
Comments:

We greatly appreciate your time in completing this evaluation questionnaire. It contains important information that will assist IMO in determining the success and impact of the activity. Thank you.
7 Visibility activities

The workshop was organized as per the Communication and Visibility Plan as agreed. Approved letter template is also used to publish agenda, notices, etc.. Some additional materials please find the attachments as below.

Agenda
5th to 7th December 2018
Putrajaya Malaysia

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800-1000</td>
<td>Registration</td>
<td>MTCC-Asia</td>
</tr>
<tr>
<td>1000-1010</td>
<td>Opening Ceremony for MTCC-Asia Sub-Regional Workshop</td>
<td>MOT, Malaysia, Marine Department of Malaysia and MTCC-Asia</td>
</tr>
<tr>
<td>1010-1050</td>
<td>Lunch</td>
<td>MTCC-Asia</td>
</tr>
<tr>
<td>1050-1200</td>
<td>Updates on IMO Conventions, practices and trends for GHG control and Energy Efficiency</td>
<td>MTCC-Asia</td>
</tr>
<tr>
<td>1200-1300</td>
<td>Lunch</td>
<td>MTCC-Asia</td>
</tr>
<tr>
<td>1300-1330</td>
<td>Case Study in MTCC-Asia</td>
<td>Utilization of tinning optimization technologies / fuel consumption data collection technologies</td>
</tr>
<tr>
<td>1330-1500</td>
<td>Lunch</td>
<td></td>
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<tr>
<td>1500-1620</td>
<td>Case Study on GHG control and EE-outlines, comparisons and outlook, and industrial activities</td>
<td>MTCC-Asia</td>
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<tr>
<td>1630-1800</td>
<td>Closing Ceremony</td>
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<table>
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<th>Time</th>
<th>Activity</th>
<th>Details</th>
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<tbody>
<tr>
<td>1700-1900</td>
<td>Key technologies for GHG control and EE-outlines, comparisons and outlook, and industrial activities</td>
<td>MTCC-Asia</td>
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<tr>
<td>1900-2000</td>
<td>Lunch</td>
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<tr>
<td>2000-2130</td>
<td>Case Study on GHG control and EE-outlines, comparisons and outlook, and industrial activities</td>
<td>MTCC-Asia</td>
</tr>
<tr>
<td>2130-2200</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>2200-2230</td>
<td>Seminar: Newch analysis, challenges and solutions for GHG control and EE</td>
<td>Marine Department of Malaysia, MTCC-Asia and All delegates</td>
</tr>
<tr>
<td>2230-2300</td>
<td>Closing Ceremony</td>
<td></td>
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</tbody>
</table>
After the event, MTCC-Asia released news on the MTCC-Asia, news on the MTCC-Asia WeChat official account, etc. Please see the pictures and links below. And the videos have been sent to PCU by other means.
Uptake, Share and Sustainability for Greener Shipping

MTCC-Asia Sub-Regional workshop commenced on 5th Dec in Putrajaya Malaysia


https://mp.weixin.qq.com/s/tAG9RnzIDT3Y_CVdo38Wfg
## Agenda

### 5th to 7th December 2018

**Putrajaya Malaysia**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session</th>
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<tr>
<td>4th Dec 2018</td>
<td></td>
<td><strong>Registration</strong></td>
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<td>5th Dec 2018</td>
<td>0900-1000</td>
<td>Opening Ceremony for MTCC-Asia Sub-Regional Workshop</td>
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<td></td>
<td>1000-1030</td>
<td>Photo and break</td>
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<td></td>
<td>1030-1200</td>
<td>Briefing on GMN &amp; MTCC-Asia</td>
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<tr>
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<td>1200-1330</td>
<td>Lunch</td>
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<tr>
<td></td>
<td>1330-1700</td>
<td>Updates on IMO Conventions, practices and trends for GHG control and Energy Efficiency</td>
</tr>
<tr>
<td>6th Dec 2018</td>
<td>0900-1200</td>
<td>Key technologies for GHG control and EE—outlines, comparisons and outlook, and Industrial activities</td>
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<td></td>
<td>1200-1330</td>
<td>Lunch</td>
</tr>
<tr>
<td></td>
<td>1330-1700</td>
<td>Case Study in MTCC-Asia: Utilization of trimming optimization technologies / fuel consumption data collection technologies</td>
</tr>
<tr>
<td>7th Dec 2018</td>
<td>0900-1130</td>
<td>China’s efforts on GHG control and energy efficiency within a maritime safety administration system</td>
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<tr>
<td></td>
<td>1030-1200</td>
<td>Glomeep review and Malaysia’s experiences</td>
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<td>Lunch</td>
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<tr>
<td></td>
<td>1300-1630</td>
<td>Seminar: Needs analysis, challenges and solutions for GHG control and EE</td>
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<td></td>
<td>1630-1700</td>
<td>Closing Ceremony</td>
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<tr>
<td>8th Nov 2018</td>
<td>0900-1700</td>
<td>Departure</td>
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## Annex 2 Participants & MTCC-Asia staff List

<table>
<thead>
<tr>
<th>No</th>
<th>Country</th>
<th>Name</th>
<th>Department</th>
<th>Travel funded by</th>
<th>Gender</th>
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<tbody>
<tr>
<td>1</td>
<td>China</td>
<td>Zhao Shuo</td>
<td>China MSA</td>
<td>Self-pay</td>
<td>Male</td>
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<tr>
<td>2</td>
<td>China</td>
<td>Zheng Xuran</td>
<td>China MSA</td>
<td>Self-pay</td>
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<tr>
<td>3</td>
<td>China</td>
<td>Fong Chung Lap</td>
<td>Hong Kong Marine Department</td>
<td>MTCC-Asia</td>
<td>Male</td>
</tr>
<tr>
<td>4</td>
<td>India</td>
<td>Satish Devdas Kamath</td>
<td>Directorate General of Shipping</td>
<td>MTCC-Asia</td>
<td>Male</td>
</tr>
<tr>
<td>5</td>
<td>Indonesia</td>
<td>Osmaleli</td>
<td>Departement of Environmental and Resources Economics</td>
<td>MTCC-Asia</td>
<td>Female</td>
</tr>
<tr>
<td>6</td>
<td>Malaysia</td>
<td>Zalikha Moslim</td>
<td>Marine Department Malaysia</td>
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<td>Female</td>
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<tr>
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<td>Malaysia</td>
<td>Nurul Asnida Binti Abdul Wahab</td>
<td>Marine Department Malaysia</td>
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<td>Malaysia</td>
<td>Nik Nadiah Amalina Binti Yasin</td>
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<td>Nurul Atiqah Binti Azizzan</td>
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<tr>
<td>11</td>
<td>Malaysia</td>
<td>Yasmin Mohd Hasni</td>
<td>Marine Department Malaysia</td>
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<tr>
<td>12</td>
<td>Malaysia</td>
<td>Mohammad Hisham Ali</td>
<td>Labuan South China Sea Regional Office</td>
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<tr>
<td>13</td>
<td>Malaysia</td>
<td>Aai Sheau Ye</td>
<td>Maritime Institute of Malaysia</td>
<td>N/A</td>
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<tr>
<td>14</td>
<td>Malaysia</td>
<td>Saravanan Venkadasalam</td>
<td>Akademi Laut Malaysia</td>
<td>N/A</td>
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<td>Malaysia</td>
<td>Noor Suhadah Bt Abdul Aziz</td>
<td>MISC Berhad</td>
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<td>16</td>
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<td>Sin Bi Cheah</td>
<td>Orkim Ship Management Sdn Bhd</td>
<td>N/A</td>
<td>Male</td>
</tr>
<tr>
<td>17</td>
<td>Malaysia</td>
<td>Md Redzuan Bin Zoolfakar</td>
<td>Universiti Kuala Lumpur Malaysian Institute of Marine Engineering Technology</td>
<td>N/A</td>
<td>Male</td>
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<tr>
<td>18</td>
<td>Malaysia</td>
<td>Mohd Marby Bin Mohamed Rohani</td>
<td>Ship Classification Malaysia</td>
<td>N/A</td>
<td>Male</td>
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<td>19</td>
<td>Malaysia</td>
<td>Mohd Eszly Fauzi Bin Zulkifi</td>
<td>Alam Maritim (M) Sdn Bhd</td>
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<td>Male</td>
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<td>21</td>
<td>Malaysia</td>
<td>Lorance Pragasam</td>
<td>Eaglestar Marine Holdings (L) Pte. Ltd.</td>
<td>N/A</td>
<td>Male</td>
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<td>22</td>
<td>Malaysia</td>
<td>Zulkifly Ariffin</td>
<td>Greenfinder Sdn Bhd</td>
<td>N/A</td>
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<tr>
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<td>Organization</td>
<td>Region</td>
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<td>Malaysia</td>
<td>Nasha Lee Chia Hwee</td>
<td>United Nations Development Programme</td>
<td>N/A</td>
<td>Female</td>
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<td>24</td>
<td>Sri Lanka</td>
<td>Kumarasamy Somasundaram Ramkumar</td>
<td>Sri Lanka Ports Authority</td>
<td>MTCC-Asia</td>
<td>Male</td>
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<tr>
<td>25</td>
<td>Thailand</td>
<td>Natphat Nongbua</td>
<td>Marine Department, Thailand</td>
<td>MTCC-Asia</td>
<td>Male</td>
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<tr>
<td>26</td>
<td>China</td>
<td>Ruan Wei</td>
<td>MTCC-Asia (SMU)</td>
<td>MTCC-Asia</td>
<td>Male</td>
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<tr>
<td>27</td>
<td>China</td>
<td>Wang Deling</td>
<td>MTCC-Asia (SMU)</td>
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<tr>
<td>28</td>
<td>China</td>
<td>Li Jianjun</td>
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<tr>
<td>29</td>
<td>China</td>
<td>Zhu Sha</td>
<td>MTCC-Asia (SMU)</td>
<td>MTCC-Asia</td>
<td>Female</td>
</tr>
</tbody>
</table>
Annex 3 Traveling documents

China- Fong Chung Lap

India-Satish Devdas Kamath

Indonesia-Osmaleli

Sri Lanka-K.S. Ramkumar
Thailand-Natnhat Nonnbua
**Maritime Technology Cooperation Centre-Asia**  
1550 Haigang Avenue, Shanghai, P.R. China, 201306  
Tel: 86 21 3828 4320 Fax: 86 21 3828 4329 Website: www.mtccasia.org

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**The Everly PUTRAJAYA**

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Mobile: +862158284997  
Email: zhu@shmtu.edu.cn

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**05th Revised Confirmation Letter for FullBoard Seminar on 3rd – 8th December 2018**

Warmest greeting from The Everly Putrajaya!  
The Everly Putrajaya Hotel is located in the heart of the business, entertainment & shopping district in Putrajaya. The Everly Putrajaya is the perfect destination for both business and leisure travelers.  
Overlooking the breath-taking lake, the Hotel offers 380 well-appointed guest rooms and suites, a 1,800-seat banquet hall, 8 meeting rooms, a restaurant, a lounge cafe, executive and air crew lounges, an outdoor pool and a gym.

---

**CONFERENCE**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
<th>Set up</th>
<th>No of Pax</th>
<th>Net Price/ pax</th>
<th>Meals</th>
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<td>05/12/2018</td>
<td>0800-1800</td>
<td>Anyaman 3.4</td>
<td>Classroom</td>
<td>25</td>
<td>RM602.00</td>
<td>2.x Tea Break, &amp; Lunch/dinner</td>
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<td>07/12/2018</td>
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**ACCOMMODATION**

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<th>Unit</th>
<th>No. of Nights</th>
<th>Net Price/ pax</th>
<th>Remarks</th>
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<tr>
<td>03/12/2018</td>
<td>08/12/2018</td>
<td>Single/Twin</td>
<td>4</td>
<td>5</td>
<td>RM220.00</td>
<td>Breakfast</td>
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<tr>
<td>04/12/2018</td>
<td>08/12/2018</td>
<td>Single/Twin</td>
<td>5</td>
<td>4</td>
<td>RM220.00</td>
<td>Breakfast</td>
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<td>08/12/2018</td>
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<td>10</td>
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<td>RM220.00</td>
<td>Breakfast</td>
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**TOURISM TAX**

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<th>Net Price/ pax</th>
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<tbody>
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<td>03/12/2018</td>
<td>08/12/2018</td>
<td>Single/Twin</td>
<td>4</td>
<td>5</td>
<td>RM120.00</td>
<td>Foreign Guest</td>
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<td>RM120.00</td>
<td>Foreign Guest</td>
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**WELCOMING DINNER**

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<td>06/12/2018</td>
<td>1900-2200</td>
<td>IRAMA 7.8</td>
<td>Chinese Set</td>
<td>3</td>
<td>RM1,028.00</td>
<td>Chinese Menu A</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Dinner</td>
<td>6</td>
<td>RM150.00</td>
<td>Vegetarian</td>
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**TOTAL FOR CONFERENCE PACKAGE**  
RM5,050.00  
**TOTAL FOR ACCOMMODATION (3R@N)**  
RM4,560.00  
**TOTAL FOR ACCOMMODATION (3R@N)**  
RM4,560.00  
**TOTAL FOR WELCOMING DINNER**  
RM5,050.00  
**Quotation Validity** (valid for all charges will only be applied upon receipt of Full Payment)  
28/12/2018  
**PRE-PAYMENT**  
28/12/2018  
RM4,832.00  
**REFUND**  
07/12/2018  
RM5,098.00
INDAH PUTRAJAYA SDN BHD (421891-D)
(C/o The Everly Putrajaya Hotel)
No. 1, Jalan Alamanda 2
Precinct 1, 62000 Putrajaya
Tel: +603 - 8892 2929 Fax: +603 - 8892 2828
GST Number: 080154878-576

Tax Invoice

Date: 6/12/2018
Invoice No: BQT1218/009

Invoice To:
ZHU SHA
SHANGHAI MARITIME UNIVERSITY
1550 HAIGANG AVE, SHANGHAI P.R. CHINA, 201306

Attn To: ZHU SHA

Function Name: CONFERENCE

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<th>C/Out Date</th>
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<td></td>
<td>4/12/2018</td>
<td>8/12/2018</td>
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<tr>
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<td></td>
<td></td>
<td></td>
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<td>379.31</td>
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<td></td>
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<td>200.00</td>
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Pls Make Cheque to INDAH PUTRAJAYA SDN BHD.
Pls Quote the Invoice Number when making payment.
Our bank account number AMB 234-202-200840-9

Amount Before GST: RM 3,793.10
Add GST (6%): RM 227.59

Total: RM 4,000.00

Invoice Confirm Correct and Received By:
Name: 
Designation: 
Date: 
Signature: 

**Please acknowledge and confirm this invoice is correct when you have RECEIVED THIS INVOICE by email to fardilah.shafri@theeverlygroup.com or fax: +603 - 6206 3930 (Attention to Fardilah).**
INDAH PUTRAJAYA SDN BHD (421891-D)
(C/o The Everly Putrajaya Hotel)
No.1, Jalan Almaml 2
Precinct 1, 62000 Putrajaya
Tel: +603 - 8892 2828 Fax: +603 - 8892 2929
GST Number : 01548782976

The Everly Putrajaya Hotel

Tax Invoice
Date: 6/12/2018
Invoice No: BQ11218009

To:
ZHU SHA
SHANGHAI MARITIME UNIVERSITY
1550 Haigang Ave, Shanghai P.R. China, 201306

P.O. No: 1221951

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<td>TOURISM TAX</td>
<td>3/12/2018</td>
<td>8/12/2018</td>
<td>200.00</td>
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Amount Before GST: RM 3,793.10
Add GST (0%): RM 227.56
Total: RM 4,000.00

Pls Make Cheque to INDAH PUTRAJAYA SDN BHD.
Pls Quote the Invoice Number when making payment.
Our bank account number AM0 231-202-2004-01-9

Invoice Confirm Correct and Received By:
Name:
Designation:
Date:
Signature:

"**Please acknowledge and confirm this invoice on receipt when you have RECEIVED THIS INVOICE by email to fardiah.sharifah@theeverlygroup.com or via fax at +603 8892 2828 (attention to Fardillah)."
# Tax Invoice

**INDAH PUTRAJAYA SDN BHD** (421891-D)
(C/o The Everly Putrajaya Hotel)
No.1, Jalan Alamanda 2
Precint 1, 62000 Putrajaya
Tel: +603 - 8892 2929  Fax: +603 - 8892 2828
GST Number: 001548782K76

---

**Invoice To**

ZHUI SHA
SHANGHAI MARITIME UNIVERSITY
1550 HAIGANG AVE, SHANGHAI P.R. CHINA, 201306

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**Function Name:**

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**Description**

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<th>C/Out Date</th>
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<th>Tax</th>
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<td>8/12/2018</td>
<td>13,655.17</td>
<td>1,365.52</td>
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Amount Before GST: **RM 13,655.17**  
Add GST (6%): **RM 819.31**  
Total Amount: **RM 15,440.00**

---

**Invoice Confirm Correct and Received By:**

**Name:**
**Designation:**
**Date:**
**Signature:**

---

"Please acknowledge and confirm this invoice is correct when you have received this invoice by email to fardiah.shafiah@theeverlygroup.com or mail to The Everly Putrajaya, No.1, Jalan Alamanda 2, Precint 1, 62000 Putrajaya."

---

**Ph. Make Cheque to INDAH PUTRAJAYA SDN BHD.**  
**Ph. Quote the Invoice Number when making payment.**  
**Our bank account number AM1 234-202-201840-9**
# Tax Invoice

**INDAH PUTRAJAYA SDN BHD (421891-D)**  
(C/o The Everly Putrajaya Hotel)  
No.1, Jalan Alamanda 2  
Precinct 1, 62000 Putrajaya  
Tel: +603 - 8892 2828  
Fax: +603 - 8892 2828  
GST Number: 001548782976

**To:**  
ZHU SHUA  
SHANGHAI MARITIME UNIVERSITY  
1550 HAIGANG AVE.SHAHANG P.R. CHINA,201306

**Attn To:**  
ZHU SHUA

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<th>C/O Date</th>
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<th>Tax</th>
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<td>1,297.41</td>
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Phs Make Cheque to INDAH PUTRAJAYA SDN BHD.  
Phs Quote the Invoice Number when making payment.  
Our bank account number AMB 234-202-200840-9

Amount Before GST RM 12,974.14  
Add GST (6%) RM 778.45  
Total RM 15,052.59

---

**Invoice Confirm Correct and Received By:**  
Name:  
Designation:  
Date:  
Signature:  
**INDAH PUTRAJAYA SDN BHD**  
The Everly Putrajaya Hotel  
No.1, Jalan Alamanda 2  
Precinct 1, 62000 Putrajaya

---

**Please acknowledge and confirm this invoice by email to fardish.sharifah@theeverlygroup.com or fax to 03-8892 2828 (attention to Fardish).**
INVOICE

INDAH PUTRAJAYA SDN BHD (421891-D)
(C/o The Everly Putrajaya Hotel)
No.1, Jalan Alamanda 2
Precinct 1, 62000 Putrajaya
Tel: +603 - 8892 2828 Fax: +603 - 8892 2828
GST Number : 001548782976

Tax Invoice

Date: 6/12/2018
Invoice No.: IQT1218009

Invoice To:
ZHU SHA
SHANGHAI MARITIME UNIVERSITY
1550 HARGANG AVE SHANGHAI P.R. CHINA 201306

Add To: ZHU SHA

Function Name:
CONVENTION

<table>
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<th>Description</th>
<th>P.O. No.</th>
<th>Terms</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARGES FOR WELCOMING DINNER</td>
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<td></td>
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<tr>
<td>(RM 1828.00 NETT x 3 TABLE) - CHINESE SET</td>
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<td>(RM 100.00 NETT x 6 PAX) - VEGETARIAN SET</td>
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Amount Before GST: RM 2,688.62
Add GST (6%): RM 190.55
Total: RM 3,648.00

Ph: Make Cheque to INDAH PUTRAJAYA SDN BHD.
Ph: Quote the Invoice Number when making payment.
Our bank account number AM8 124-202-20404-9

Invoice Confirm Correct and Received By:

Name:
Designation:
Date:
Signature:

INDAH PUTRAJAYA SDN BHD
1221951

Sales PIC:

Accounts Department:

**Please acknowledge and confirm this invoice within 10 working days.**
Annex 4 Summary of Evaluation Questionnaire

The following informs a brief summary of the views from the participants:

Question 1: Was the invitation received in good time?
25 participants choose Yes.

Question 2: Did you receive the information listed below about the event before your participation?
  - on its objective and scope
    24 participants choose Yes, and 1 chooses No.
  - subject areas and programme
    24 participants choose Yes, and 1 chooses No.

Question 3: Were the instructions on the following clear and easy to understand?
  - profile required of participant
    25 participants choose Yes.
  - completion and submission of the nomination form
    25 participants choose Yes.

Question 4: Did you receive logistical information on
  - Venue
    24 participants choose Yes, and 1 chooses No.
  - travel arrangements
    23 participants choose Yes, and 2 choose N/A.
  - DSA payments
    16 participants choose Yes, and 1 chooses No, and 8 choose N/A.
  - Accommodation
    23 participants choose Yes, and 2 choose N/A.

Question 5: If you were given any pre-event assignment, was it useful?
21 participants choose Yes, and 4 choose N/A.

Question 6: To cover the topics fully, was the event
None participants choose too long, and 24 choose just right, and 1 chooses too short.

Question 7: How do you rate the event with regard to the following?
  - Venue
    17 participants choose excellent, and 8 choose good.
Facilities
17 participants choose excellent, and 8 choose good.

Equipment
16 participants choose excellent, 6 choose good, and 3 chooses satisfactory.

Question 8: How do you rate the following aspects of the materials?
- **Presentation**
  15 participants choose excellent, and 9 choose good, and 1 chooses satisfactory.
- **Clarity**
  15 participants choose excellent, and 9 choose good, and 1 chooses satisfactory.
- **Technical content**
  14 participants choose excellent, 6 choose good, and 5 choose satisfactory.
- **Comprehensiveness**
  12 participants choose excellent, 9 choose good, and 4 choose satisfactory.
- **Quantity**
  12 participants choose excellent, 10 choose good, and 3 choose satisfactory.

Question 9: How would you rate the following aspects of the presentations?
- **Design and structure**
  14 participants choose excellent, 10 choose good, and 1 chooses satisfactory.
- **Clarity**
  13 participants choose excellent, 11 choose good, and 1 chooses satisfactory.
- **Technical contents**
  12 participants choose excellent, 9 choose good, and 4 choose satisfactory.
- **Comprehensiveness**
  13 participants choose excellent, 10 choose good, and 2 choose satisfactory.

Question 10: How would you rate the use of the following?
- **Course materials**
  14 participants choose excellent, 8 choose good, 2 choose satisfactory, and 1 chooses poor.
- **IMO reference materials**
  12 participants choose excellent, 8 choose good, 4 choose satisfactory, and 1 chooses poor.
- **Other resource materials**
  13 participants choose excellent, 7 choose good, and 5 choose satisfactory.
- **Group and practical activities**
  12 participants choose excellent, 6 choose good, 1 chooses satisfactory, and 6 choose N/A.
- **Field trips**
3 participants choose excellent, 4 choose good, 1 chooses satisfactory, and 8 choose N/A.

Question 11: Please rate the lecturers with regard to the following
- **content of lecture**
  - 12 participants choose excellent, 11 choose good, and 2 choose satisfactory.
- **delivery of presentation**
  - 13 participants choose excellent, 11 choose good, and 1 chooses satisfactory.
- **ability to transfer knowledge effectiveness in:**
  - **answering questions**
    - 12 participants choose excellent, 9 choose good, 3 choose satisfactory, and 1 chooses poor.
  - **suggesting solutions to issues**
    - 13 participants choose excellent, 9 choose good, and 3 choose satisfactory.

Question 12: What topics were of most interest and relevance to you?
- China's efforts on GHG control and energy efficiency.
- Maritime Governance and Implementation.
- Modern Maritime Safety administration.
- Energy Efficiency Technologies in existing ships.
- Updates on IMO conventions for GHG control and EE, IMO DCS.
- Case study in MTCC-Asia: data collection.
- Almost the topics are relevant and interesting for me.

Question 13: Are there any topics which should be added?
4 participants choose Yes, and 21 choose No.
If yes, please list them:
- Progress in Research of Air Pollution Emissions from Ship.
- Brief introduction on IMD major project, inter alia, Glomeep project.
- The Guideline or procedure for Energy Efficiency to comply with MARPOL Annex VI each countries should be added next conference.
- Energy efficient engines and new technology in new ships designs.

Question 13: Do you consider that the objective of the event was met?
25 participants choose Yes.

Question 14: Are you likely to use the information you gained on the course when you return to work?
25 participants choose Yes.

**Question 15:** Will you have the opportunity to transfer the knowledge gained to your colleagues at work?

25 participants choose Yes.

**Comments:**
- Nowadays, the serious issue faced by every marine industrialized counties is the marine pollution. The major cause is GHG emission by vessels. So, IMO also set up the framework, technologies and trend to control GHG. Arranging the workshop as well as the trainer course relating with GHG and Energy Efficiency is the great performance. Participants get so many advantages, knowledge, they can transfer the knowledge to their organization and also have the idea how to contribute to their marine environment a bit. I greatly appreciate IMO and associated organizations for disseminating knowledge and arrangement for these programs.
- Venue projector already had problem and should be improved.
- The control is at surface. More details please.
- Wish to have the extended course of this in future.