

2018

ΕΘΕΛΟΝΤΙΚΟ ΕΠΙΜΟΡΦΩΤΙΚΟ ΠΡΟΓΡΑΜΜΑ
VOLUNTARY REFRESHER TRAINING PROGRAM



ΕΛΛΗΝΙΚΗ ΕΝΩΣΗ ΠΡΟΣΤΑΣΙΑΣ
ΘΑΛΑΣΣΙΟΥ ΠΕΡΙΒΑΛΛΟΝΤΟΣ
HELLENIC MARINE ENVIRONMENT
PROTECTION ASSOCIATION



Seminar B: Pollution Prevention



1st Day

09.00 - 10.00

Topic Number: 1
Title: **Best Practices - Proper Record Keeping for the Management of Oil Waste**
Lecturer: Andriaki Shipping Co. Ltd.

10.00 - 10.15 Break

10.15 - 11.15

Topic Number: 1 (continued)
Title: **Best Practices - Proper Record Keeping for the Management of Oil Waste**
Lecturer: Andriaki Shipping Co. Ltd.

11.15 - 11.30 Break

11.30 - 12.30

Topic Number: 2
Title: **Garbage Management On Board**
Lecturer: Diana Shipping Services S.A.

12.30 - 13.00 Break

13.00 - 14.00

Topic Number: 2 (continued)
Title: **Garbage Management On Board**
Lecturer: Diana Shipping Services S.A.

14.00 - 14.15 Break

14.15 - 15.15

Topic Number: 3
Title: **Implementation of Ballast Water Convention**
Lecturer: Bureau Veritas

2nd Day

09.00 - 10.00

Topic Number: 4
Title: **Compliance with MARPOL Annex VI - Dealing with Potential Problems**
Lecturer: American Bureau of Shipping

10.00 - 10.15 Break

10.15 - 11.15

Topic Number: 4 (continued)
Title: **Compliance with MARPOL Annex VI - Dealing with Potential Problems**
Lecturer: American Bureau of Shipping

11.15 - 11.30 Break

11.30 - 12.30

Topic Number: 5
Title: **Implementation of the Monitoring - Reporting - Verification System (MRV)**
Lecturer: DNV GL

12.30 - 13.00 Break

13.00 - 14.00

Topic Number: 6
Title: **Response to Oil Pollution from Ships**
Lecturer: Danaos Shipping Co. Ltd.

14.00 - 14.15 Break

14.15 - 15.15

Topic Number: 6 (continued)
Title: **Response to Oil Pollution from Ships**
Lecturer: Danaos Shipping Co. Ltd.

Brief contents of the Seminar's topics

1. Best Practices - Proper Record Keeping for the Management of Oil Waste

- Introduction to MARPOL Annex I - main requirements
 - Special area requirements
 - Repeated observations and areas of attention related to MARPOL Annex I
 - Oil Record Book (ORB) principals and summary of instructions
 - Implementation of record keeping requirements - examples
 - Oil Water Separators (OWS) fundamentals
 - What is going wrong - usual problems
 - Deficiencies related to OWS/OCM entries in Oil Record Book
 - U.S. National Environmental Compliance Program (ECP)
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2. Garbage Management On Board

- Introduction - garbage categories
 - New regulations effective on 1 March 2018
 - Garbage Management Plan
 - Special Areas
 - Regulations for garbage discharge
 - Garbage Record Book
 - Common deficiencies related to garbage management
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3. Implementation of Ballast Water Convention

- Ballast Water Convention - introduction
 - Reasons for the Ballast Water Convention
 - Examples of invasive species spreading
 - Convention entry into force
 - MEPC 71: implementation scheme
 - Application
 - Standards for ballast water management (BWM)
 - Convention implementation schedule
- Ballast Water Convention - overview
 - Main regulations
 - Guidelines
 - Resolution MEPC.279(70)
- US Coast Guard - overview
 - Additional requirements
 - Ballast Water Treatment System (BWTS) Type Approval status
 - Implementation schedule
 - BWM Extension Program update

- BWTS technologies
 - Treatment technologies
 - BWTS available per technologies
 - Mechanical treatments
 - UV treatment / deoxygenation / cavitation / heat
 - Chemical disinfection general principle
 - Chlorination / chlorine dioxide / electrochlorination - example
 - Use of ozone
 - Plan Approval - review
 - Ballast Water Exchange (BWE) - design review and methods
 - BWTS - Onboard installation design review
 - Design assessment overview
 - Documentation to be submitted
 - Survey & Certification
 - Challenges on purchasing a unit
 - Equipment selection, installation and operational challenges
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4. Compliance with MARPOL Annex VI - Dealing with Potential Problems

- Regulation 12 - Ozone Depleting Substances (ODS)
 - Regulation 13 - Nitrogen oxides (NO_x)
 - Regulation 14 - Sulfur oxides (SO_x) and particulate matter
 - Regulation 15 - Volatile Organic Compounds (VOCs)
 - Regulation 16 - Shipboard Incineration
 - Regulation 21 - CO₂ emissions / Energy Efficiency Design Index (EEDI)
 - Regulation 22A - CO₂ emissions / Data Collection System
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5. Implementation of the Monitoring - Reporting - Verification System (MRV)

- CO₂ - related regulatory update
 - EU and IMO requirements related to ship monitoring/reporting procedures and system
 - Main challenges for achieving compliance
 - The importance of collecting high quality data
 - Options for gaining added value out of the improvements towards compliance
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6. Response to Oil Pollution from Ships

- What is pollution - what is prevention?
- Hierarchy of environmental protection
- Our tools:
 - Safety Management System
 - SOPEP / SMPEP
 - Panama Canal SOPEP
- Planning criteria for the availability of mechanical response equipment
- Legal basis for compensation
- Liabilities?

- Legal framework in United States:
 - In which cases we inform USCG
 - Master's actions
 - State requirements: Alaska, Washington, Oregon, California
 - Federal exercise requirements
 - Remote assessment & consultation exercise
 - USCG - Government Initiated Unannounced Exercises (GIUE)
 - State initiated exercises
 - Alternative Planning Criteria (APC) for remote areas
 - APC - Southeast Alaska
 - APC - American Samoa & Guam & the Commonwealth of the Northern Mariana Islands
 - APC - Western Alaska
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Με την υποστήριξη των (κατά αλφαβητική σειρά)
Supported by (in alphabetical order)



American Bureau of Shipping



Andriaki Shipping Co. Ltd.



Atlantic Bulk Carriers Management Ltd.



Bureau Veritas



COSTAMARE SHIPPING COMPANY S.A.

Costamare Shipping Co. S.A.



Danaos Shipping Co. Ltd.



DIANA SHIPPING SERVICES S.A.

Diana Shipping Services S.A.



DNV GL



Euronav Ship Management (Hellas) Ltd.



Hellenic Lloyd's S.A.



Ministry of Maritime Affairs and Insular Policy -
Hellenic Coast Guard Head Office /
Υπουργείο Ναυτιλίας και Νησιωτικής Πολιτικής -
Αρχηγείο Λιμενικού Σώματος - Ελληνικής Ακτοφυλακής



National Technical University of Athens (NTUA) -
Laboratory for Maritime Transport /
Εθνικό Μετσόβιο Πολυτεχνείο (Ε.Μ.Π) -
Εργαστήριο Θαλάσσιων Μεταφορών



RINA Hellas Ltd.



V. Ships Greece Ltd.