Shipping Safety and Environmental Management
—Role of the Oil Companies—
OCIMF, SIRE and TMSA

Captain William Crabbs
Senior Technical Adviser, OCIMF
Shipping China Energy 2008, Shanghai
24th April 2008
Our History

1967: Grounding of Torrey Canyon
1970: OCIMF formed
1975: First OCIMF guideline published (Ship to Ship Transfer Guide)
1977: Incorporated and granted consultative status at IMO
1993: SIRE launched
1998: 50th publication released
2000: SIRE ISO 9002 accreditation
2000: SIRE Inspector Training and Accreditation starts
2004: SIRE expanded to barges and small ships
2004: TMSA launched
2008: TMSA 2 to be launched in July
Our Mission

To be the foremost authority on the safe and environmentally responsible operation of oil tankers and terminals, promoting continuous improvement in standards of design and operation.
Our Purpose & Organisation

Engage in activities of mutual concern relating to transportation by tanker and marine terminalling of crude oil, liquefied natural gas, liquefied petroleum gas, their derivatives and related organic compounds, with special reference to the protection of the marine environment and the promotion of safety in marine operations.

- 61 members in voluntary association
- Executive Committee directs standing committees and a full-time secretariat supporting the work of the Marine Forum
<table>
<thead>
<tr>
<th>Our Members</th>
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<tbody>
<tr>
<td>Abu Dhabi Company for Onshore Oil Operations (ADCO)</td>
<td>Essar Oil Ltd</td>
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<td>Abu Dhabi Marine Operating Company (ADMA OPCO)</td>
<td>Greater Nile Petroleum Operating Co Ltd (GNPOC)</td>
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<td>Abu Dhabi National Oil Company (ADNOC)</td>
<td>Hess Corporation</td>
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<td>Addax Oryx Group</td>
<td>Indian Oil Corporation</td>
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<td>Administración Nacional de Combustibles Alcohol y Portland (ANCAP)</td>
<td>Ineos Manufacturing Scotland Ltd</td>
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<td>Bakri International Energy Company Ltd</td>
<td>International Marine Transportation Ltd (IMT)</td>
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<td>BG LNG Services LLC</td>
<td>Koch Supply &amp; Trading LP</td>
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<td>BHP Billiton Ltd</td>
<td>Kuwait Oil Company (KOC)</td>
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<td>BP Shipping Ltd</td>
<td>LUKOIL Oil Company</td>
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<td>Cargill Ocean Transportation</td>
<td>Mærsk Oil</td>
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<td>Chevron Shipping Company LLC</td>
<td>Marathon Petroleum Co LLC</td>
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<td>Compañía Española de Petróleos SA (CEPSA)</td>
<td>Marquard &amp; Bahls AG</td>
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<td>ConocoPhillips Shipping Company</td>
<td>Motor Oil (Hellas) Corinth Refineries SA</td>
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<td>Emirates National Oil Company</td>
<td>National Iranian Tanker Company</td>
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<td>EnCana Corporation</td>
<td>Neste Oil Corporation</td>
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<td>Enel Trade SpA</td>
<td>Nexen Inc</td>
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<td>Eni SpA</td>
<td>OMV Refining &amp; Marketing GmbH</td>
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<td>ERG SpA</td>
<td>PDV Marina SA</td>
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<td>Petro-Canada</td>
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<td>Petróleo Brasileiro SA (PETROBRAS)</td>
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<td>Petróleos de Portugal PETROGAL SA</td>
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<td>Petróleos Mexicanos (PEMEX)</td>
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<td>Petroleum Industry Marine Association of Japan (PIMA)</td>
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<td>representing Idemitsu Kosan Co Ltd, Nippon Petroleum Refining Co Ltd, Showa Shell Sekiyu KK</td>
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<td>Petron Corporation</td>
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<td>Petronas Sungai Udang Port Sdn Bhd</td>
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<td>Preem Petroleum AB</td>
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<td>Qatar General Petroleum Corporation</td>
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<td>Reliance Industries Ltd</td>
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<td>Repsol YPF</td>
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<td>SARAS SpA</td>
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<td>Saudi Arabian Oil Company (Saudi Aramco)</td>
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<td>Sempra LNG</td>
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<td>Shell International Trading and Shipping Company Limited</td>
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<td>Sonangol USA</td>
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<td>StatoilHydro ASA</td>
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<td>Sunoco Logistics Partners LP</td>
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<td>Talisman Energy UK Limited</td>
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<td>Tesoro Maritime Company</td>
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<td>Total SA</td>
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<td>Valero Marketing &amp; Supply Co</td>
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<td>Vermillion Energy Resources Ltd</td>
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Our Objectives

**Standards**
To identify safety and environmental issues facing the oil tanker and terminal industries, and develop and publish recommended standards that will serve as technical benchmarks.

**Regulatory**
To contribute to the development of international conventions and regulations that enhance the safe construction and operation of oil tankers and terminals, working with the IMO and other regulatory bodies, both regional and national.

**Enforcement**
To encourage flag States, port States and classification societies in their enforcement of international conventions and regulations.

**Promulgation**
To facilitate access by charterers and authorities to data on tankers relating to safety and pollution prevention, through the Ship Inspection Report (SIRE) Programme and the Tanker Management Self Assessment Programme (TMSA).

**Consultation**
To promote ratification and implementation of international compensation conventions.

**Promotion**
To actively promote OCIMF’s role in the development of safety and environmental guidelines and recommendations, harnessing the skills and experience of OCIMF members and holding industry events addressing the issues.
Our Objectives – Standards

- Industry recommendations and guidelines
- More than 50 guidelines produced
- Many are the basis for industry standards
- Some have been adopted into national law and referenced by international bodies
- OCIMF Effective Mooring recently translated into Mandarin
Our Objectives – Regulatory

Active participation at IMO as a non-Governmental Organisation (NGO) including the following committees and sub-committees:

- Council
- Legal
- Maritime Safety Committee (MSC)
- Marine Environmental Protection Committee (MEPC)
- Navigation Sub-Committee (NAV)
- Bulk Liquids and Gas Sub-Committee (BLG)
- Design and Equipment (DE)
- Standards of Training and Watchkeeping (STW)
- Stability, Loadlines and Fishing Vessels Safety (SLF)
- Dangerous Goods, Solid Cargoes and Containers (DSC)
- Flag State Implementation (FSI)

Active participation on a regional and national basis
Our Objectives – Enforcement

- Active dialogue with European Commission
- Professional working relationships with other regional and national authorities
  - Individual IMO Members including USCG
  - Paris, Tokyo and emerging MOU’s
  - Australian Marine Safety Agency (AMSA)
  - European Maritime Safety Agency (EMSA)
- Regular contact with Classification Societies through IACS
Risk Assessment Tools

TERMINAL BASELINE CRITERIA ASSESSMENT

- OWNER PERFORMANCE
- OWNER AUDITS
- SHIP INSPECTIONS
- OCIMF SIRE REPORTS
- CDI REPORTS
- TERMINAL FEEDBACK
- CHARTER FEEDBACK
- CASUALTY DATA
- FLAG CHANGES
- MANNING/MANAGEMENT CHANGES
- CLASSIFICATION SOCIETY CHANGE
- MARKET INTELLIGENCE
- OCIMF TANKER MANAGEMENT SELF ASSESSMENT (TMSA)

THE VETTING DECISION

YES, NO, or UNASSESSED
Our Objectives – Promulgation – SIRE

- Development and management of the SIRE Programme
  - Uniform inspection report following the vessel inspection questionnaire (VIQ)
  - Accurate vessel particulars data in a common format (VPQ)
  - 46 report submitting companies
  - >15,000 reports less than 12 months old on 6,200 tankers
  - >1,200 new inspection reports per month
  - ~2.5 inspections/vessel/year
  - >4000 reports requested per month
- Electronic 24/7 access via WebSERM2
- Expansion of SIRE to barges and small ships
Our Objectives – Promulgation – SIRE

SIRE Reports Received and Requested Per Month
November 1997 to March 2008
Our Objectives – Promulgation – SIRE

Oil companies started development of formalized inspection systems

SIREIntroduced 1993

No. Reported tanker incidents and accidental pollution

1000 ts

0 100 200 300 400 500 600 700

War Hull & Machinery Fire/Exp Grounded Coll/Contact Misc Pollution - bars

Courtesy of INTERTANKO
Our Objectives – Promulgation – SIRE

SIRE Inspector Training and Accreditation Programme
- Introduced in 2000
- Expanded to include barges in 2005
- >400 Category 1 inspectors
- >150 Category 2 and 3 inspectors
- >4 new-inspector courses annually
- >2 refresher training courses annually
Our Objectives – Promulgation – TMSA

OCIMF’s Tanker Management and Self Assessment (TMSA) publication and programme
- Introduced in 2004 as a tool for ship operators to measure and improve their safety management
- Encourages assessment of management systems against listed KPIs
- Best practices provide guidance to achieve KPIs
- Results used to develop phased continuous improvement plan for safety and environmental performance
- Encourages higher standards of ship management
- Method for distribution of data where ship operator retains control

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Our Objectives – Promulgation – TMSA

TMSA Applications

- TMSA Website accessed by 728 Ship Operators
- Global interest with highest users: Greece (107), Japan (66), Singapore (49), USA (62)
Our Objectives – Promulgation – TMSA2

- TMSA 2, the second edition of the publication and programme
  - Updated building upon operators’ experience and feedback from industry
  - Expanded to encompass all tank vessel operators including those managing coastal vessels and barges
  - Increased scope of application, improved clarity, and better definition
  - Adjust KPI’s to follow logical progression
  - Ensure consistency with existing International Conventions and industry best practices
Our Objectives – Promulgation – TMSA2

- TMSA 2 includes
  - 245 KPIs associated with best practice guidance
  - 101 reworded KPIs
  - 84 updated best practices
  - 52 stages in elements rearranged
  - Additional rearrangement and revision
- Significant change
  - Two reporting formats to allowing for 1) operators managing internationally trading vessels and 2) operators managing inland and coastal vessels
  - Upgraded Web-based application
  - Improved functionality, flexibility and user interface
  - Advanced reporting and administrative features

**Go Live with new TMSA2 is 1 July 2008**
- www.ocimf-tmsa.com
TMSA2

New programme look and feel
New login page also showing latest report modifications
TMSA2

New programme look and feel
OCIMF members can now login to view
TMSA2

New programme look and feel
Data Mining
Our Objectives – Consultation

- **IOPC Funds**
  - Compensation for oil pollution damage
  - Many of the largest contributors are OCIMF Members
  - OCIMF has observer status
  - Presenting a coordinated industry view on claims and the Fund rules
  - Active participation in Fund and CLC revision

- **Regional and national**
  - Consultation on forthcoming legislation e.g. current areas of concern in EU are criminal sanctions for accidental pollution, and EC Maritime Safety Package
Our Objectives – Promotion

- High level oil company participation in Committee and Forum Meetings
- Close cooperation with other non-Governmental Organisations (NGOs)
- Regular contact meetings with members
- OCIMF Web Site (www.ocimf.com)
- OCIMF Newsletter and Annual Reviews