



ISCO NEWSLETTER

The Newsletter of the International Spill Response Community
Issue 560 14 November 2016

info@spillcontrol.org

<http://www.spillcontrol.org>



ISCO & THE ISCO NEWSLETTER

The ISCO Newsletter is published weekly by the International Spill Control Organisation, a not-for-profit organisation supported by members in 45 countries. ISCO has Consultative Status at IMO, Observer Status at IOPC Funds and is dedicated to raising worldwide preparedness and co-operation in response to oil and chemical spills, promoting technical development and professional competency, and to providing a focus for making the knowledge and experience of spill control professionals available to IMO, UNEP, EC and other organisation.

ISCO COMMITTEE & COUNCIL

ISCO is managed by an elected executive committee members of which are **Mr David Usher** (President, USA), **Mr John McMurtrie** (Secretary, UK), **Mr Marc Shaye** (USA), **Mr Dan Sheehan** (USA), **M. Jean Claude Sainlos** (France), **Mr Kerem Kemerli** (Turkey), **Lord Peter Simon Rickaby** (UK), **Mr Li Guobin** (China), **Captain Bill Boyle** (UK) and **Mr Dennis van der Veen** (The Netherlands).

The Register of ISCO Members is maintained by **Ms Mary Ann Dalglish** (Membership Director). She is also responsible for collecting membership dues.

The Executive Committee is assisted by the non-executive ISCO Council composed of the following national representatives – **Mr John Wardrop** (Australia), **Mr Osman Tarzumanov** (Azerbaijan), **Mr John Cantlie** (Brazil), **Dr Merv Fingas** (Canada), **Captain Davy T. S. Lau** (China, Hong Kong), **Mr Li Guobin** (China, Mainland), **Mr Darko Domovic** (Croatia), **Eng. Ashraf Sabet** (Egypt), **Mr Torbjorn Hedrenius** (Estonia), **Mr Pauli Einarsson** (Faroe Islands), **Prof. Harilaous Psaraftis** (Greece), **Captain D. C. Sekhar** (India), **Mr Dan Arbel** (Israel), **Mr Sanjay Gandhi** (Kenya), **Chief Kola Agboke** (Nigeria), **Mr Jan Allers** (Norway), **Capt. Chris Richards** (Singapore), **Mrs Fatima B. Shaik** (South Africa), **Dr Ali Saeed Al Ameri** (UAE), **Mr Kevin Miller** (UK) and **Dr Manik Sardessai** (USA).

For more info on Executive Committee and Council Members go to www.spillcontrol.org

INTERNATIONAL DIRECTORY

Click on these links to view websites

[CONSULTANTS](#)

[EQUIPMENT & MATERIALS](#)

[RESPONSE ORGANISATIONS](#)

[TRAINING PROVIDERS](#)

International news

For more information on the events featured below, click on the banners



The 5th Conference and Exhibition

a topco event

Oil Spill Response Workshop (OSRW 2016)

December 8-9, 2016 Beijing China



IOSC 2017
International Oil Spill Conference

IRAQ – AS AT 6th NOVEMBER 19 OIL WELLS ON FIRE



Photo: A boy passes an oil field set aflame by retreating ISIS fighters ahead of the Mosul offensive in Qayyarah, Iraq. Carl Court/Getty Images

November 6 - So-called Islamic State has set 19 oil fields ablaze leaving a vast toxic cloud over Mosul and surrounding towns in Iraq.

Iraqi forces entered the city's outskirts for the first time on Tuesday since the city was seized by IS militants in June 2014. [BBC News Watch video](#)

Editor: Looking at photographs of the oil well fires near Mosul in Iraq gives a vivid reminder of the pollution in Kuwait and Saudi Arabia caused by Saddam's troops as they retreated from the 1991 invasion. The IMO responded with the organisation of the international oil pollution disaster fund. How will UNEP respond in Iraq after the fighting stops?

PROFESSIONAL MEMBERSHIP

Advance your career by gaining Professional Recognition

Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment.

All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO.

The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications.

The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications.

You can apply for Student Membership, Associate Membership (AMISCO), MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

[All about Professional Membership Application Form](#)

To receive the free ISCO Newsletter

Go to <http://www.spillcontrol.org> and enter your name and email address in the Registration Form (located on the right hand side of the home page) then click on "subscribe"

International news (continued)

OIL FIRES IN IRAQ – NASA IMAGES, REPORT & COMMENT



NASA - acquired August 17, 2016

For the past few months, a smoke plume has shifted with the winds over northern Iraq. In recent years, periodic oil fires have cast a dark pall over this arid landscape. They are one consequence of ongoing war in the region.

On August 17, 2016, the Operational Land Imager (OLI) on Landsat 8 acquired an image (above) of dense smoke plumes roughly 50 kilometers (30 miles) south of Mosul. There appear to be multiple sources of fire, most likely oil wells from the Qayyarah oil field. [Earth Observatory – NASA](#) [Read more and view images](#)

INTERNATIONAL DAY FOR PREVENTING THE EXPLOITATION OF THE ENVIRONMENT IN WAR AND ARMED CONFLICT

November 6 - Secretary-General's Message for 2016

"This year, the world began implementing the 2030 Agenda for Sustainable Development. With 17 universal and interdependent Sustainable Development Goals, the 2030 Agenda is a transformational blueprint for peace, prosperity and dignity for all on a healthy planet. To achieve this vision, we must recognize that we have a duty of care towards the environment in peacetime and during war.

Poor governance of the environment and natural resources can contribute to the outbreak of conflict. It can fuel and finance existing conflicts and it can increase the risk of relapse. Conversely, there are many examples of natural resources serving as catalysts for peaceful cooperation, confidence-building and poverty reduction.

In the aftermath of violent conflict, natural resources, such as land, timber, minerals, oil and gas, are often the primary assets that governments need to support livelihoods and economic recovery. How governments manage these resources can fundamentally alter the course of post-conflict peacebuilding. That is why it is so important that we work together to combat environmental crime, end the illegal exploitation of natural resources, improve transparency, share benefits more equitably and encourage the participation of women, indigenous peoples and vulnerable groups in decision-making.

The 2030 Agenda explicitly recognizes that "sustainable development cannot be realized without peace and security; and peace and security will be at risk without sustainable development." That is why, earlier this year, all 193 Member States of the United Nations Environment Assembly adopted a resolution committing to protect the environment in areas affected by armed conflict. At the same time, the United Nations International Law Commission is currently reviewing the international legal framework for protecting the environment before, during and after armed conflict. It

International news (continued)

aims to establish guidelines that can better support environmental preservation, particularly in protected areas and environmentally sensitive sites, such as drinking water aquifers, which are of critical environmental and cultural importance and can be severely affected by warfare.

With the 2030 Agenda and the concurrent efforts of the United Nations Environment Assembly and the International Law Commission, we have a range of important tools at our disposal. On this International Day, I urge governments, businesses and citizens around the world to prioritize environmental care and the sustainable management of natural resources for preventing conflict, building peace and promoting lasting prosperity” - Ban Ki-moon [Source Document](#)

STRENGTHENING OIL SPILL RESPONSE IN SOUTHEAST ASIA



Training for oil pollution preparedness, response and cooperation (OPRC) was underway in Jeju Island, Republic of Korea (7-11 November). After completion of the course, Government officials from seven* Southeast Asian countries will play a significant role in advancing their respective countries' OPRC capability, as well as regional and international cooperation in the case of major oil spills.

The course included a focus on the OPRC capacity in the Republic of Korea as an example of the level of oil spill preparedness and response in developed countries.



The event was organized by IMO and the Korea Marine Environment Management Corporation (KOEM), supported by the Republic of Korea through the Ministry of Oceans and Fisheries. IMO is represented by Yasuhiro Urano and a team of consultants.

* Cambodia, Indonesia, Malaysia, Myanmar, Philippines, Thailand and Timor Leste [IMO](http://www.imo.org/EN/Pages/Default.aspx) <http://www.imo.org/EN/Pages/Default.aspx>

Editor – Sharp-eyed readers may recognise ISCO member, John Ostergaard (acting as the course presenter in the top photo and centre-front in the bottom photo). John is Principal Consultant with ISCO Corporate Member, Neocos Consulting of Inverness, Scotland, UK. <http://www.neocosconsulting.com/>

USA & CANADA: TRANSPORTATION OF CRUDE OIL ALONG THE WEST COAST

November 3 - The Pacific States/B.C. Oil Spill Task Force has updated its West Coast crude oil transport map. The map depicts the routes of crude traveling by rail, tanker vessel, pipeline and barge across the western states and British Columbia. It also captures the locations of current and proposed facilities, refineries and terminals. The rapid growth in crude by rail transport has highlighted response and preparedness gaps along the rail line.

The task force also tracks the volumes of crude transported across the region. This data is collected on an annual basis and summarized in a report available to the public.

The task force continues to track the volumes of crude movement annually to assist in oil spill prevention, preparedness and response across the West Coast.



International news (continued)

Recently, the task force partnered with NOAA's Office of Response and Restoration to incorporate its oil spill data into NOAA's Environmental Response Management Application (ERMA), an online mapping tool that integrates both static and real-time data, such as Environmental Sensitivity Index (ESI) maps, ship locations, weather, and ocean currents, in a centralized, easy-to-use format for environmental responders and decision makers.

Since 2002, the task force has been collecting data on oil spills in Washington, Oregon, California, and Hawaii, providing information on the size of spill, location, type of material and substrate (on land or water). NOAA [Read more](#)

Incident reports from around the world

VENEZUELA'S PDVSA ANNOUNCES OIL SPILL IN ANZOATEGUI STATE

November 7 - Venezuela's state oil company PDVSA said on Monday there had been an oil spill in central Anzoategui state and it was supplying drinking water to affected communities during an operation over a radius of 50 kilometers (31 miles).

PDVSA said in a statement the leak occurred in a 36-inch (91 cm) pipeline in the locality of Santa Clara. PDVSA launched an operation to supply drinking water and protect local ecosystems, it added, giving no further details.

An opposition lawmaker from Anzoategui, Jose Brito, said the leak occurred between Wednesday and Sunday and that 25,000 barrels had spilled, causing an "ecological disaster." *Mail Online* [Read more](#)

November 9 - PDVSA Says Oil Spill Does Not Affect Orinoco River

Venezuela's state oil company PDVSA said on Tuesday it had controlled a crude spill in a northeastern state and ruled out any contamination of the massive Orinoco river.

A pipeline leak at the locality of Santa Clara, in Anzoategui state, has been fixed and even though rains carried crude into the nearby Aribi river, that is still 80 km (50 miles) from the Orinoco, PDVSA said in a statement.

Opposition politicians and local media have accused PDVSA of covering up an "ecological disaster" with up to 100,000 barrels spilt since the leak began last week. Though it did not give figures, the company denied that.

"The size of the leak announced by right-wing spokesmen is totally false," said the statement from PDVSA, which is the financial motor of Venezuela's socialist government. *The Maritime Executive* [Read more](#)

SOUTH AFRICA: CLEAN-UP UNDERWAY AFTER BIG DURBAN OIL SPILL

November 10 - A major clean-up operation is underway in Durban after about 20 000 litres of crude oil spilled into the Amanzimnyama River outside the city on Thursday morning.

It is unclear at this stage what caused the spillage into the river which flows into the Durban harbour, prompting concern from environmentalists.

The South Durban Community Environmental Alliance and the Bluff Alliance said they were worried about the impact of the river's marine life. Bluff Alliance spokesman Ivor Aylward said an environmental management company had been dispatched to the spill site to contain the situation. *TimesLive.co.za* [Read more](#)

NIGERIA: OIL SPILL HITS BAYELSA COMMUNITY

November 10 - A field report by Environmental Right Action (ERA) has indicated that oil spills from Tebidaba-Ogboinbiri crude line operated by Nigerian Agip Oil Company (NAOC) has discharged massive volumes of crude into surrounding environment.

The report claimed that officials of NAOC had commenced recovery of spilled crude from Ikienghenbiri community in Southern Ijaw Local Government Area of Bayelsa State. *Channels Television* [Read more](#)

November 10 - Company says no oil leak in Bayelsa

Eni, the parent company of Nigerian Agip Oil Company, says it has no evidence of an oil leak from Tebidaba-Ogboinbiri crude line operated by its subsidiary in Nigeria.

Domenico Spina, the Media Relations and Social Network Press Officer at Eni, in an email response to the incident on Wednesday, said the oil firm was not aware of the leakage. "I confirm that to our knowledge we had no evidence about an oil spill in that area. That's for your background," Domenico added. *The Eagle Online* [Read more](#)

CANADA: B.C. LAYS OUT WEST COAST SPILL RESPONSE NEEDS AHEAD OF EXPECTED FEDERAL PLAN

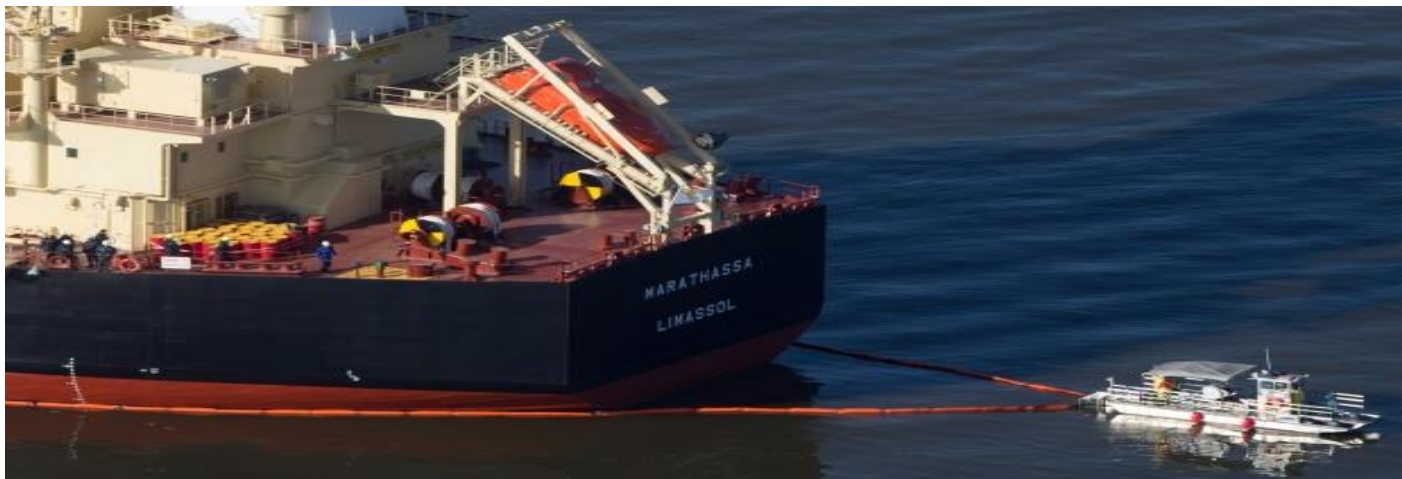


Photo: A spill response boat secures a boom around the bulk carrier cargo ship Marathassa after a bunker fuel spill on Burrard Inlet in Vancouver, B.C., on Thursday April 9, 2015. (Darryl Dyck/The Canadian Press)

November 7 - British Columbia's demands for a world-leading marine oil spill response has a long list of requirements, including a coast guard base at Prince Rupert and a multimillion-dollar price tag for the federal government.

The B.C. and federal governments have been in talks for months to develop a West Coast spill response system, and Prime Minister Justin Trudeau's Liberal government is expected to announce its plans on Monday. Trudeau is scheduled to make an announcement then hold a press conference with Transport Minister Marc Garneau at 3:50 p.m. ET and CBCNews.ca will carry it live.

A provincial Environment Ministry official said in advance of the expected announcement there are 11 gaps in marine safety on the B.C. coast the federal government must address to ensure world-leading spill preparedness and response. *CBC News* [Read more](#)

CANADA TO SPEND \$1.1 BILLION TO BOOST OIL SPILL RESPONSE



Photo: Canada's Prime Minister Justin Trudeau announces a \$1.5 billion national Oceans Protection Plan while speaking at HMCS Discovery in Vancouver, B.C., Canada November 7, 2016. REUTERS/Ben Nelms

November 7 - Canada's Liberal government on Monday vowed to toughen its response to oil spills at sea, a move that some critics say will increase local tanker traffic and hurt the environment.

As part of a marine safety plan to protect oceans, Prime Minister Justin Trudeau said Ottawa would spend C\$1.5 billion (\$1.1 billion) over five years on better response measures and research into how to clean up oil spills.

Trudeau said the plan "will make Canada a world leader in marine safety."

However, environmentalists said the announcement was a sign Ottawa will approve the hotly contested Trans Mountain pipeline expansion next month, which will run from Alberta's oil sands to the Pacific Coast.

Trudeau declined to comment on whether he will approve the pipeline. *Reuters* [Read more](#)

Related reports in [gCaptain](#) and [The Maritime Executive](#)

News reports from around the world (continued)

CANADA: ENVIRONMENT CANADA TRYING TO EASE FLOW OF OIL SPILL RESEARCH

November 10 - A team of Environment Canada scientists is trying to fill key research gaps among oil spill response officials as a looming increase in oil tanker traffic raises worries for coastal communities.

Environment Canada and Climate Change has been producing field guides on how oil behaves in water for a long time, but these texts aren't digitized or widely available, said Jen Collette, director of science and technology policy at Environment Canada, speaking at the Canadian Science Policy Conference Wednesday.

"These are physical, tangible field guides and so you've either got one or you haven't got one," said Collette. "Some of is still in fairly technical language, so how do you translate that to be accessible?"

Collette, who has been leading a team in charge of setting up a network of experts on oil spill research for the past several years, said there might be a chance to create an online portal for oil spill science, she said. "But those are things that don't happen easily off the corner of a desk, so they require some investment to make them happen."

The work on the network, which was the topic of a panel at the conference Wednesday, has been taking place against the backdrop of rising oil production in Alberta, new pipeline construction and the prospect of more tanker traffic.
iPolitics [Read more](#)

MALTA: OPEN DAY ABOARD THE OIL SPILL RESPONSE VESSEL BALLUTA BAY

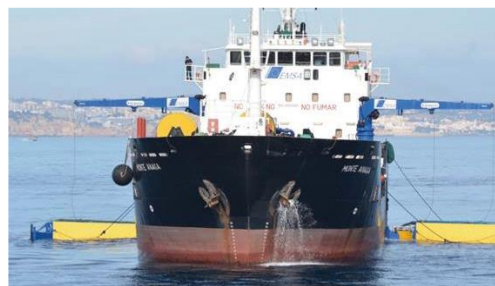


November 7 - EMSA arranged an open day aboard the oil spill response vessel Balluta Bay on 4 October to coincide with the Malta maritime summit. EMSA's Executive Director presented the Agency's oil spill response services to Kitack Lim, IMO Secretary General, Thodoros Dritsas, Shipping Minister of Greece, Marios Demetriades, Transport Minister of Cyprus, Joe Mizzi, Transport Minister of Malta as well as to other high ranking officials present at the summit. *EMSA Newsletter*

[Read more](#)

PORTUGAL: OIL SPILL RESPONSE EXERCISE HELD OFF THE COAST OF PORTUGAL

November 7 - On 20 October two of EMSA's contracted vessels, the Bahia Tres (based in Sines, Portugal) and the Monte Anaga (based in Algeciras, Spain) participated in the oil spill response exercise 'Atlantic Pox 2016'. This exercise, organised by the Portuguese National Maritime Authority, took place off the coast of Portimao. EMSA vessels were deployed in an offshore scenario that envisaged a collision between a cargo vessel and a tanker resulting in a 6000 m3 spill of crude oil. The Monte Anaga was tasked to recover oil, while the Bahia Tres was initially ordered to deploy a dispersant spraying system and then its sweeping arms. Each of EMSA's standby vessels regularly undergoes at-sea response exercises to ensure a high level of preparedness should a serious oil spill occur.



THAILAND: WORKSHOP PROMOTES IMO LIABILITY AND COMPENSATION REGIME

November 10 - A national workshop on the IMO liability and compensation conventions is underway in Bangkok, Thailand (8 -11 November). The workshop is providing a comprehensive overview of the IMO liability conventions, including those covering the [wreck removal](#), [salvage](#), [carriage of hazardous and noxious substances](#), [CLC](#), [Fund](#) and



[Bunkers Convention](#). In looking at the history of the treaties' development, their principles, implementation and practical implications – IMO is supporting the implementation and enforcement of the full liability regime in the country.

Attending participants include government legal officers and legislative drafters as well as stakeholders from the private sector. Jan de Boer and Aicha Cherif are representing IMO with representatives from the IOPC Funds and the International Group of P&I Clubs.

The workshop is organized by the Marine Department of Thailand in Bangkok. *IMO*

[Read more](#)

TRINIDAD & TOBAGO: ENERGY MINISTER FRANKLIN KHAN “DISGUSTED WITH OIL SPILL RESPONSE”

November 9 - NEWLY appointed Energy Minister Franklin Khan marked his first public appearance in that role yesterday by registering his “disgusts” with industry reactions and responses to the spate of oil spills between 2012 and 2015.

“Companies are seeing what they see, seeing how it affected fishermen, seeing how it killed fish, seeing oil in the mangroves and crabs laced with petroleum, and they say they are not sure where it coming from,” he said.

Delivering the keynote address at the American Chamber of Commerce of TT's HSSE 20th Anniversary Conference at the Hyatt Regency, Port-of- Spain, Khan said it was largely the average man, in this case fishermen and their families, who felt the negative effects of the failure of aging and neglected infrastructure.

Khan told those gathered that oil pollution to inland and marine areas had sharply increased from a low of 843 barrels in 2011 to 18,960 barrels in 2014. *Trinidad & Tobago Newsday* [Read more](#)

UK: WILL REIGNING IN OIL AND GAS COMPANIES SAVE THE NORTH SEA?

November 8 - The North Sea is getting oily. And it is not just because of the recent oil spill at Clair Oil Rig, which released 95 tonnes of oil into the North Sea.

According to a recent survey from the Maritime and Coastguard Agency (MCA), accidental releases of oil and chemicals in the North Sea are at a 14 year high.

The survey, summarising accidental oil spills from 2014, found 601 reported accidental offshore oil and chemical spills. This number is up 14.5 per cent from 2013. Of the 601 accidents, 380 were oil spills, the highest it has been since 2000. *The Student Newspaper* [Read more](#)

UK: OIL SPILL EXERCISE WHITE CLIFF PLANNED FOR DOVER SEAFRONT OVER THREE DAYS

November 9 - Oil spill specialists will trial their latest emergency procedures as part of a national exercise. They will also test their anti-pollution kit at Dover seafont from Wednesday, November 16, to Friday, November 18.

Exercise White Cliff will be played out close to the port's tug haven and the slipway.

The experts, from Oil Spill Response Ltd, Adler and Alan, Kent Resilience and the Port, will set up mobile incident facilities on the beach and deploy booms offshore to contain the imaginary slick.

They will also have vessels and equipment simulating oil skimming from the surface of the water while shore teams perfect their beach decontamination skills. In addition, the team plans to carry out SCAT (Shoreline Clean-up and Assessment Technique) surveys between Folkestone and St Margaret's, charting the extent of possible contamination from the fictional spill.

Gabriel Gyamfi, from Oil Spill Response, said: “The exercise will give us an opportunity to practise with the very latest equipment and will include elements of planning and shoreline and dockside operations. *KentOnLine* [Read more](#)

News reports from around the world (continued)

USA: ANOTHER LARGE EARTHQUAKE STRIKES OKLAHOMA – 5.3 MAGNITUDE

November 6 - Oklahoma has been rocked by another large earthquake, this one centered about 53 miles northeast of Oklahoma City. According to the USGS Earthquake Hazards Program, the quake had a magnitude of 5.3 on the Richter scale and originated at a depth of 6.1 km, only 1.5 miles west of Kushing, and 16 miles southeast of Stillwater. The earthquake occurred at about 8:44 p.m. EST.

This earthquake marks the second significant quake in 24 hours, a 3.1 magnitude quake having struck near Perry earlier this afternoon. As the Inquisitr previously reported, Oklahoma has recently become the nation's most earthquake-prone state; a change that many are blaming on wastewater fracking. *Inquisitr.com* [Read more](#)

USA: ALASKA - SEALIFE CENTER TO LEAD OIL SPILL MARINE MAMMAL RESPONSE NETWORK

November 9 - The Alaska SeaLife Center got its start with funds from the Exxon Valdez oil spill settlement. More than 25 years later, the marine research facility is heading up the development of a national network for marine mammal oil spill response.

Through a grant from the Institute of Museum and Library Services, the Seward-based aquarium and research center will lead the development of a network that will train and connect animal care professionals around the country in association with the Maryland-based Association of Zoos and Aquariums. The two agencies will work to gather and maintain a database of veterinary professionals who are experts in response to marine mammal care during oil spills and other natural disasters. *Peninsula Clarion* [Read more](#)

ISCO News

INDIA: ISCO MEMBER OF COUNCIL, CAPT. D. C. SEKHAR TO SPEAK AT CHEMICAL & INDUSTRIAL DISASTER MANAGEMENT (CIDM) CONFERENCE

November 12 – Captain Sekhar will be addressing this National Chemical Industrial Disaster Management seminar on 17th November in the 1st technical session and will make it a point to describe the work of ISCO. The Chemical & Industrial Disaster Management (CIDM) conference on Disaster Risk Reduction Measures in Chemical, Steel & Metallurgical, Fertilizer, Pharmaceutical, Petrochemical, Petroleum and Natural Gas Industries will take place at The Mayfair Convention Centre, Bhubaneswar – November 17-19, 2016.

CHINA: MEMBER OF ISCO COMMITTEE, LI GUOBIN WILL GIVE A PRESENTATION ON THE WORK OF ISCO AT THE UPCOMING OIL SPILL RESPONSE WORKSHOP IN BEIJING

ISCO and several ISCO member companies in China and from overseas will have booths at the accompanying exhibition. The Oil Spill Response Workshop (OSRW 2016) takes place over 8-9 December and the event is being supported by many industry experts and government officials from ITOPF, ISCO, OSRL, TIEMS, MSA, SOA, China Rescue & Salvage, State Administration of Work Safety, MEPC, CNOOC, CNPC, Sinopec, Shell and BP etc. For more information click the banner on Page 1 and read more about OSRW 2016 on Page 11.

NEXT MEETING OF THE ISCO-BIMCO WORKING GROUP ON THE INTERNATIONAL SPILL RESPONSE CONTRACT

The next meeting of the Working Group will take place in London on 30th November. Following on discussions with the Spill Control Association of America (SCAA), Steven Candito of SCAA will be joining in the WG meeting to advise on contractual aspects that are specific to the US. Following the consultation process good progress is being made in reviewing comments received and it is expected that after the meeting ISCO and BIMCO will soon be able release a joint statement on the anticipated publication date.

NORWAY: ISCO MEMBER OF COUNCIL FOR NORWAY, JAN ALLERS ANNOUNCES RETIREMENT

After serving on the Council of ISCO for ten years, Mr Jan Allers is stepping down to devote more time to family matters and his lifetime hobby – swimming. At age 76, Jan still swims three times a week and is very much involved in organising the International Bergen Swim Festival which attracts more than 600 swimmers from many countries. ISCO is grateful to Jan for his support over many years and for his contribution to the spill response community, particularly his work in organising the most excellent NOSCA Seminar, held annually since 1993 by the Norwegian Oil Spill Control Association.

EVALUATION

A new series of articles contributed by Mark Francis of Oil Spill Solutions



Mark Francis has been involved with the oil industry since 1975. He attended his first oil spill in 1976, the Tanker Elaine V incident. He became head of response for inland spills within the UK for British Petroleum E & P in 1980 for 10 years responding to well, storage tank and pipeline spills throughout the UK. Over the next 25 years he continued to build his international operations experience and has also specialised in spill response training, delivering IMO and other courses in more than 20 countries.

Part 5

The volume estimation procedure

Oiled Area Measurement

SLAR Polygon

Area from SLAR Data 12 km²

Length and Width (SLAR Image or Time and Distance)

Length – 12 km x Width – 2 km (Imaginary Rectangle)

Area Covered with oil (Coverage) – 50%

Oiled Area 12 x 2 x 50% 12 km²

Appearance Coverage Allocation

Appearance Code 1 (Sheen) 50%

Appearance 2 (Rainbow) 30%

Appearance 3 (Metallic) 15%

Appearance 5 (True Colour) 5%

Thickness Band for Allocated Appearance

Sheen 0.04 µm – 0.3 µm

Rainbow 0.3 µm – 5.0µm

Metallic 5.0 µm – 50 µm

True Colour More than 200 µm

Minimum Volume Calculation

Oiled Area x Area Covered with Specific Appearance x Minimum Thickness

Appearance 1 (Sheen) 12 km² x 50% x 0.04 µm = 0.24 m³

Appearance 2 (Rainbow) 12 km² x 30% x 0.3 µm = 1.08 m³

Appearance 3 (Metallic) 12 km² x 15% x 5.0 µm = 9 m³

Appearance 5 (True Colour) 12 km² x 5% x 200 µm = 120.0 m³

Minimum Volume = 0.24 + 1.08 + 9 + 120 = 130.32 m³

Maximum Volume Calculation

Oiled Area x Area Covered with Specific Appearance x Maximum Thickness

Appearance 1 (Sheen) 12 km² x 50% x 0.3 µm = 1.8 m³

Appearance 2 (Rainbow) 12 km² x 30% x 5 µm = 18 m³

Appearance 3 (Metallic) 12 km² x 15% x 50 µm = 90.0 m³

Appearance 5 (True Colour) 12 km² x 5% x (more than) > 200 µm = > 120.0 m³

Maximum Volume = 1.8 + 18 + 90.0 + > 120 = > 229.8 m³

Special feature (continued)

Oil Groups

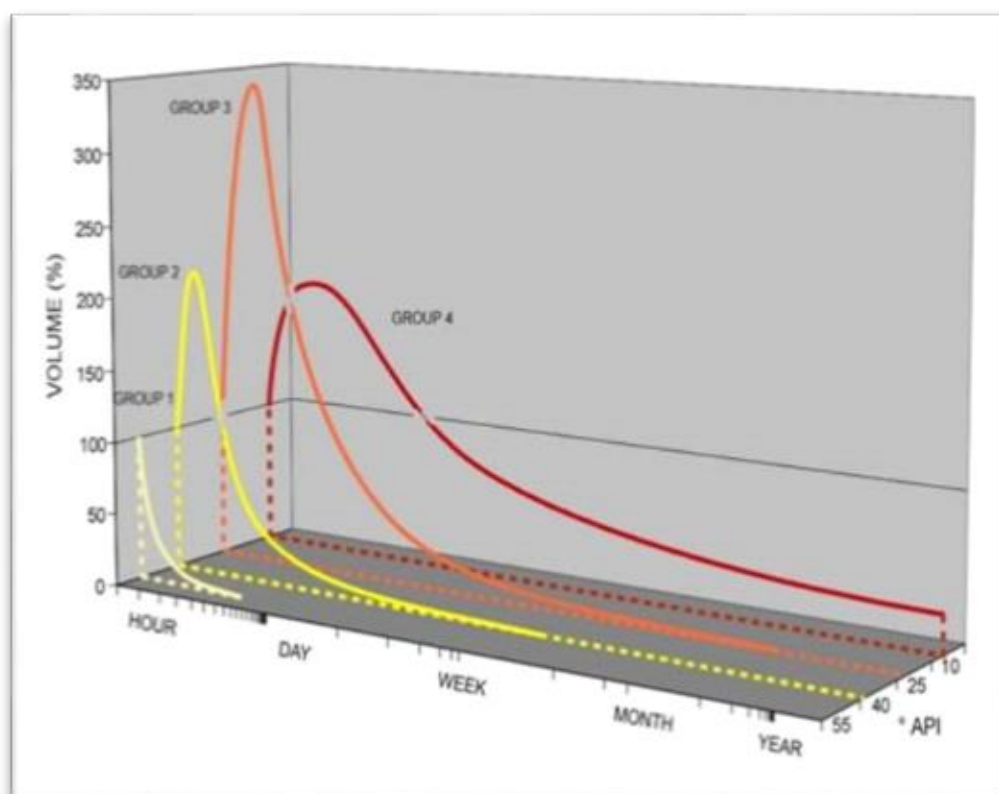
The table below shows the groups as well as other useful information for the responder.

ITOPF	Density	$^{\circ}$ API	Classification	Life	Persistence
Group I	< 0.8	>45	Very light	~ 24hrs	1-2 days
Group II	0.8 - 0,85	35 - 45	Light	~ 48hrs	3-4 days
Group III	0.85 a 0.95	17.5 - 35	Medium	~ 72hrs	6-7 days
Group IV	> 0.95	<17.5	Heavy	~ 168hrs	>7 days

This diagram from the ITOPF yearly handbook shows the volume of oil and emulsification remaining on the sea surface as a percentage of the oil spilt.

Although simple models such as this cannot predict very precisely the changes oils may undergo, they can provide clues about which type of oil is likely to dissipate naturally or what state it will be in when it reaches the shoreline.

This information is important for spill responders to decide upon the most effective spill response techniques and whether such techniques can be initiated quickly enough.



Acknowledgement of borrowed photos and other material in this article – Over a period of years Mark has compiled an extensive repertoire of material for training purposes, some of which has been replicated in this article. As the original sources cannot all be recalled, he apologises for not being able to acknowledge individual sources but does wish to record his gratitude to those who have helped him.

Next week -

Glossary of oil spill observation terms

To be continued

Publications

EMSA: INTEGRATED MARITIME SERVICES MOBILE APP UPGRADE NOW AVAILABLE

November 7 - EMSA has released the second version of its Integrated Maritime Services Mobile App (IMS Mobile App). Available to IMS registered users of both EU member state authorities and EU bodies, the IMS Mobile App provides direct, light and easy access to EMSA's IMS services and functionalities via your mobile device from both the App Store (iOS on phone and tablet) and the Google Play Store (Android on tablet) - just search for 'EMSA IMS Mobile'. *Announced in EMSA Newsletter* [Read more](#)

MODERN DAY PIPELINE PICTURE: SAFETY

September 16 - A new report completed by the Association of Oil Pipe Lines and the American Petroleum Institute shows the high priority placed on pipeline safety, the report's creators said. "But as an industry, we can always do more," according to David Murk, pipeline manager for API. "By constantly evaluating our safety programs and activities, learning from past experiences and making timely and adequate adjustments, our industry will continue working towards its goal of zero incidents," he said.

The 44-page report includes information on pipeline safety principles; safety records including where performance is improving and where challenges remain, and new operation technologies or approaches being implemented for inspecting, monitoring and managing pipeline safety programs. *The Bakken Magazine* [Read more](#)

Links for recent issues of other publications (in alphabetical order)

AMSA Aboard	News from the Australian Maritime Safety Authority	August 2016
ASME EED EHS Newsletter	News and commentary on HSE issues from George Holliday	Most recent issue
Bow Wave	Sam Ignarski's Ezine on Marine & Transport Matters	Current issue
Cedre Newsletter	News from Cedre in Brittany, France	July 2016
Celtic and Biogenie enGlobe Newsletter	Technical Information on Polluted Site Remediation	Spring 2016
CROIERG Enews	Canberra & Regions Oil Industry Emergency Response Group	Current issue
EMSA Newsletter	News from the European Maritime Safety Agency	October 2016 issue
Environmental Technology Online	Environmental Monitoring, Testing & Analysis	November 2016 issue
IMO News Magazine	News from the International Maritime Organization	No 3, 2016
IMO Publishing News	New and forthcoming IMO publications	October 2016
Intertanko Weekly News	International news for the oil tanker community	November 11, 2016
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	October 2016 issue
MOIG Newsletter	News from the Mediterranean Oil Industry Group	October 2016 issue
NOWPAP Quarterly	News from the North West Pacific Action Plan	Quarter 1, 2016 issue
Ocean Orbit	Newsletter from the International Tanker Owners Pollution Federation	May 2016
OCIMF Newsletter	News from the Oil Companies International Marine Forum	October 2016 issue
Pollution Online Newsletter	News for prevention & control professionals	November 9 2016
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Autumn 2015 issue
Technology Innovation News Survey	News from US EPA – Contaminated site decontamination	Sept 16-30, 2016
The Essential Hazmat News	Alliance of Hazardous Materials Professionals	Feb 29, 2016 issue
Transport Canada Newsletter	News and articles re transport of dangerous goods in Canada	July 2016 issue
USA EPA Tech Direct	Remediation of contaminated soil and groundwater	November 1, 2016
USA EPA Tech News & Trends	Contaminated site clean-up information	Spring 2016 issue
WMU Newsletter	News from the World Maritime University	July 2016 issue

Your editor depends on regular receipt of updated links for listed publications. If these are not received, relevant entries may be discontinued.

Events

CHINA: OIL SPILL RESPONSE WORKSHOP – CONFERENCE & EXHIBITION – 8-9 DECEMBER 2016

In recent years, oil spill rates have escalated to a serious level of incidents. We are poised to creating public awareness and training of oil workers in oil spill management & control and safety in oil & gas industry. A policy of the Maritime Safety Administration of China (MSA) being achieved this year – The National Construction Plan (2015-1020) For Major Marine Oil spill Accidents Response Ability. According to the Plan, 191 emergency equipment bases and 260 vessels will be built. But how to achieve the target and improve the ability together with all the organizations and service suppliers related to emergency response? It's the time again to discuss at OSRW 2016, the only event in China of its kind.

Presented by The Oriental Pro-Energy Consulting Organization (Topco), the 5th Conference and Exhibition–Oil Spill Response Workshop (OSRW 2016) will be held from 8-9 December in Beijing China. Themed as Improving the Ability of Spill Control and Risk Management by Collaborative Innovation, OSRW 2016 is designed to be Asia's top networking, knowledge-sharing and sourcing event of choice for oil spill prevention and clearing professionals and

Events (continued)

companies. The event features discussions on technical innovations and best practices across spill prevention, preparedness, response and restoration. It will provide an optimum mix of networking opportunities for industry stakeholders and will bring to the audience the most up-to-date technology and cost-efficient solutions to contain oil spill. Themed Improving Environment amid Spill Prevention, Preparedness and Response, the exhibition will display the latest technologies and equipment. Representatives from ITOPF, ISCO, OSRL, TIEMS, MSA, SOA, China Rescue & Salvage, State Administration of Work Safety, MEPC, CNOOC, CNPC, Sinopec and Chevron also took part in the workshop as industry experts. We recorded a huge success in the conference attendance and achievements in the past five years by showcasing the latest and best technologies and solutions for oil spill through dedicated sessions.

OSRW 2016 will once again be complimented by an exhibition of equipment and service providers in the oil spill preparedness and response industry. Welcome to join us at OSRW 2016 in Beijing China !

UPCOMING EVENTS SUMMARY

COUNTRY	2016	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
AZERBAIJAN	Nov. 21-22	4th Conf. & Exhib'n Offshore and Onshore Oil Spills	Baku
COTE D'IVOIRE	Nov. 21-24	GIWACF W'shop on Cont'y Planning & Compensat'n	Abidjan
KENYA	December 4	3rd Session of UN Environment Assembly (UNEA-3)	Nairobi
SENEGAL	December 5-7	GIWACAF Workshop on Dispersants and NEBA	Dakar
UK	December 7-8	19th Annual Salvage & Wreck Removal Conference	London
CHINA	December 8-9	5th Oil Spill Response Workshop Conf. & Exhibition	Beijing
IRELAND	December 9	ISAA Meeting and Christmas Luncheon	Dublin
2017			
USA	January 4-6	27th Annual, No-Spills Conference	Acme, Michigan
KUWAIT	January 10-12	Kuwait 2nd Oil Spill Conference	Kuwait
USA	March 28-30	2017 SCAA Annual Meeting & Conference	Washington DC
UAE	April 10-12	RECSO EnviroSpill 2017	Abu Dhabi
SINGAPORE	April 25-28	10th Intl Chemical and Oil Pollution (ICOPCE)	Singapore
USA	May 15-18	International Oil Spill Conference	Long Beach CA
2018			
UK	March 13-15	2018 INTERSPILL Conference and Exhibition	London
To request posting of an event of interest to the Spill Response Community please send details to the Editor			

Company news

UK: EXTRAORDINARY MEMBERS VOTE: RULE CHANGES & APPROVAL OF NEW COMPANY

October 25 - Corporate Members of the UK Spill Association, those defined as eligible in Rule 7i of the previous Association Rules, voted on 2 (two) motions, (approved by the Board of the UK Spill Association at a meeting on 5 July 2016). 60% of eligible members submitted votes by post, of which 100% were in favour. A Board Meeting of the UK Spill Association was held at 1700hrs on the 17th October and the votes for the motions were verified by the Board, and approved.

Motion (i) - approved the decision of the Board of the Association to replace the current legal entity, UK Spill Ltd., with a new company, UK Spill Association Ltd. The new company limited by guarantee, with 8 directors, 7 directors elected from the corporate membership to the Board, and the Executive Director. The new company has been formed and will replace the existing company, UK Spill Ltd., over the 2016-17 membership and financial year. The directors of the new company will be appointed at the next Annual Members Meeting to be held in early 2017. A notice of changes will be circulated to members after the November Board meeting of the Association.

Motion (ii) - in conjunction with Motion (i) replacing the Rules of the Association. The Rules of the Association have been approved by the Members, and will with immediate effect govern the Association. www.ukspill.org

Legal disclaimer: Whilst ISCO takes every care to ensure that information published in this newsletter is accurate unintentional mistakes can occur. No liability for consequences of errors is accepted but, if an error is brought to our attention, a correction will be printed in a following issue of this newsletter. Products and services featured in the ISCO Newsletter and/or the ISCO website, including the International Directory of Spill Response Supplies and Services, have not been tested, approved or endorsed by ISCO. Any claims made by suppliers of products or services are solely those of the suppliers and ISCO does not accept any liability for their accuracy. It should not be assumed that views and opinions expressed in linked reports, articles and other content reflect the views of the organization. Subscription is subject to acceptance of ISCO's Terms and Conditions as published on the website www.spillcontrol.org