

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 Psarftis** (Greece), **Captain D. C. Sekhar** (India), **Mr Dan Arbel** (Israel), **Mr Sanjay Gandhi** (Kenya), **Chief Kola Agboke** (Nigeria), **Capt. Chris Richards** (Singapore), **Mrs Fatima B. Shaik** (South Africa), **Dr Ali Saeed Al Ameri** (UAE), **Mr Kevin Miller** (UK) and **Dr Manik Sardesai** (USA).

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

INTERNATIONAL DIRECTORY

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International news

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



The 5th Conference and Exhibition
Oil Spill Response Workshop (OSRW 2016)
December 8-9, 2016 Beijing China

a topco event



IOSC 2017
International Oil Spill Conference

TWENTY-FIRST INTERGOVERNMENTAL MEETING OF THE NORTHWEST PACIFIC ACTION PLAN (NOWPAP) RENEWS COMMITMENT OF MEMBER STATES FOR STRENGTHENING REGIONAL COOPERATION



Participants of the Twenty-first NOWPAP Intergovernmental Meeting held in Seoul, R. Korea on November 23-24th, 2016
(Photo credit: Ning Liu).

November 24 - More than 40 stakeholders, including officials from the NOWPAP states - P.R. China, Japan, Republic of Korea, and the Russian Federation - met in Seoul to find solutions addressing pollution and declining ecosystem health and biodiversity of marine and coastal ecosystems in Northwest Pacific region.

In his opening remarks, Mr. Hyung-jong Lee, Director-General of the Ministry of Foreign Affairs of Korea emphasized that "it is our common duty and responsibility to protect shared marine environment in the North Pacific. Our cooperation continues for more than 20 years. This is the first inter-governmental meeting after NOWPAP restructuring and it provides a window of opportunity for the new future of the Action Plan".
NOWPAP [Read more](#)

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International news (continued)

2017 WILL BE AN IMPORTANT YEAR FOR THE GI WACAF PROJECT

The Secretariat is currently preparing activities at national, bilateral and sub-regional levels in the lead up to the 2017 Regional Conference where the next steps of the Project will be discussed.

The upcoming activities will be published on the website as soon as they are confirmed. <http://www.giwacaf.net/en/>

BELARUS JOINS IMO

November 30 - The Republic of Belarus has become the latest Member of IMO, following the deposit of an instrument of acceptance of the Convention on the International Maritime Organization with the Secretary-General of the United Nations on 29 November 2016.

With the acceptance of the Convention by Belarus, the number of IMO Member States stands at 172, with a further three Associate Members. IMO <http://www.imo.org/EN/MediaCentre/WhatsNew/Pages/default.aspx>

Incident reports from around the world

USA: NORTH DAKOTA - OIL SPILL REPORTED, CONTAINED NEAR KILLDEER

November 21 - A valve failure at an oil well caused about 400 barrels, or 16,800 gallons, of oil to spill on Saturday, Nov. 19, but the spill was contained and recovered, the North Dakota Oil and Gas Division said.

HRC Operating LLC reported the incident on Sunday at a well about 15 miles north of Killdeer. *The Dickinson Press* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

Incident reports from around the world (continued)

USA: COLORADO - SPILL REPORT FOR NOV. 21

November 21 - The following spills were reported to the Colorado Oil and Gas Conservation Commission in the past two weeks. Information is based on Form 19, which operators must fill out detailing the leakage/spill events. Any spill release that may impact waters of the state must be reported as soon as practical. Any spill of five barrels or more must be reported within 24 hours, and any spill of one barrel or more, which occurs outside secondary containment, such as metal or earthen berms, must also be reported within 24 hours, according to COGCC rules. Spills and leaks are typically found during routine maintenance on existing wells, though some actual "spills" do occur among the 22,000-plus wells in the country.

Eight spills are listed in the report. *Greeley Tribune* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

NEW ZEALAND: HAZARDOUS CHEMICALS SPILLED FROM CONTAINER AT PORT OF NAPIER

November 22 - Hazardous chemicals spilled from methyl ethyl ketone container at Port of Napier, New Zealand. The leak was reported to the fire department and local authorities, which established 100-meter exclusion zone around the pollution site. The chemical leaked at the port terminal and hazmat teams are foreseeing to open the container, allowing fumes from the leaking drum to dissipate. After that will remove the undamaged drums from the container and wash them down, while the damaged will be taken to a hazardous goods storage facility.

Methyl ethyl ketone is commonly used as a paint thinner and cleaning agent, capable of removing almost all oil fat or grease stains. It can also be used in the blending and compounding of adhesives and manufacture of synthetic cements. Labels describe its vapor has highly flammable. *Maritime Herald* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

Incident reports from around the world (continued)

USA: OHIO - FIREFIGHTERS DEAL WITH MAJOR HAZMAT SPILL AT RAIL YARD

November 23 - Township firefighters had to suppress a hazardous situation Tuesday afternoon when gallons of a chemical compound known as tripropylene spilled out of a ruptured railcar at the Norfolk Southern Railway yard in the 4100 block of Louisville Street NE.

"They were moving railcars around and one was damaged from that," said Chief Chuck Shalenberger of the township Fire Department. "One (car) was pushed into another.

That chemical is flammable. So our first concern was a fire threat."

"It was fully loaded, and the estimate is about 25,000 gallons," Shalenberger said. "It stayed pretty much localized to the area around the rail car. We used foam to suppress the vapors." *Firehouse.com* [Read more](#)

USA: KANSAS - AIROSOL CHEMICAL PLANT EXPLOSION MAY CONTAMINATE OK WATER

November 24 - Parts of Oklahoma are now being affected by the Aersol Plant explosion in Kansas.

Residents of northeastern Oklahoma had their water service turned off because of possible contamination. Both Kansas and Oklahoma authorities are examining the water quality to see what chemicals may be contaminating the water. They are worried about runoff from the chemicals in the plant and the chemicals used to put out the fire. *Kswo.com* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

AUSTRALIA: VICTORIA - MOBIL TO INVESTIGATE ALTONA REFINERY LEAK

November 24 - Mobil says it will conduct a thorough investigation to determine the cause of a leak from its Altona refinery early Thursday morning.

About 30 firefighters and Hazmat crews wearing breathing apparatus attended the Millers Road plant after security reported a leak about 3am. Part of Millers and Korororoit Creek roads were blocked off for public safety.

MFB spokesman Steve Moore said the leak was found to be a mixture of hydrogen and naphtha, a flammable liquid hydrocarbon.

"Specialist Hazmat crews responded and advice was sought from the MFB scientific officer," he said.

Mr Moore said Mobil crews replaced the contents of the leaking pipe with an inert gas – nitrogen – allowing the leak to be sealed. *Star Weekly* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

JAMAICA: NEPA INVESTIGATING OIL SPILL IN KINGSTON HARBOUR

November 25 - The National Environment and Planning Agency (NEPA) said it is investigating a report of an oil spill in the Kingston Harbour, which occurred yesterday afternoon.

In a news release today, NEPA disclosed that preliminary reports indicate that the spill took place in the vicinity of Gordon Cay.

The agency said the Office of Disaster Preparedness and Emergency Management (ODPEM) is currently coordinating the clean-up and containment activities being undertaken by the Jamaica Defence Force Coast Guard.

Jamaica Observer [Read more](#)

News reports from around the world (countries listed in alphabetical order)

CANADA: ENVIRONMENTALISTS RAISE CONCERNS OVER POSSIBLE ONGOING OIL LEAK IN ALBERTA

November 20 - Environmentalists and First Nations are raising concerns about a heavy oilfield in northeastern Alberta that may still be seeping water and bitumen years after the flow was first discovered.

The field, owned by Canadian Natural Resources Ltd. (TSX:CNQ), was the subject of a major investigation by the province's energy regulator after a major "flow-to-surface event" in 2013.

Surface water collected near four fissures in the ground continues to show an oily sheen. The Alberta Energy Regulator says a fifth, which first leaked in 2009, still oozes small amounts of fresh bitumen. *GlobalNews.ca* [Read more and watch video](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

News reports from around the world (continued)

CANADA: ONTARIO - HISTORICAL WATER POLLUTION ALONG NORTH SHORE BEING COVERED OVER: RESEARCH

November 26 - Monitoring data showing that pollution from mill effluent being covered over in Terrace Bay, Marathon, Ontario.

Environmental monitoring in a pair of north shore communities is showing some good news in terms of ongoing mitigation of historical industrial pollution, according to the Thunder Bay Remedial Action Plan.

Members with the group are involved with the monitoring and remediation of several sites of concern in the Thunder Bay area and along the north shore.

- [Thunder Bay harbour clean-up efforts highlighted in new online tool](#)
- [Nipigon Bay no longer "area of concern" says new report](#)
- [Thunder Bay harbour cleanup group wants answers in 2016](#)

The action plan's co-ordinator, Jim Bailey, said data was presented from provincial and federal environmental agencies this fall concerning two sites — one in Terrace Bay and the other in Marathon. *CBC News* [Read more](#)

CANADA: NEW RULES FOR SASKATCHEWAN PIPELINES AFTER HUSKY OIL SPILL INTO RIVER

November 28 - Saskatchewan is proposing tougher rules for pipelines following an oil spill into the North Saskatchewan River that jeopardized the drinking water of thousands of people.

Legislation introduced Monday would establish new inspection, investigation and compliance powers for government staff, as well as update and modernize penalties.

It would also provide requirements for financial assurance from operators for pipelines in high-risk locations such as water crossings.

"It does provide, I think, more ability for the ministry to provide oversight," Energy and Resources Minister Dustin Duncan said at the legislature in Regina.

The legislation raises penalty provisions to a maximum of \$500,000 per day from \$50,000 *CTV News* [Read more](#)

CANADA: TRUDEAU APPROVES TRANS MOUNTAIN, LINE 3 PIPELINES



November 29 - Canada has approved Kinder Morgan's hotly contested plan to twin a pipeline from the Alberta oil sands to the Pacific coast, setting up a battle with environmentalists who helped elect Prime Minister Justin Trudeau.

The Liberal government, seeking to balance demands from both greens and the energy industry, said allowing Kinder Morgan to build a second pipeline next to its existing Trans Mountain line will help ensure oil exports reach Asia and reduce reliance on the U.S. market.

The Trans Mountain pipeline runs from Alberta to British Columbia and its expansion will be bigger than Keystone

XL, increasing Canadian tar sands through the pipeline from the current 300,000 to 890,000 barrels per day.

The Maritime Executive [Read more](#)

CANADA: ENVIRONMENTALISTS PREDICT PIPELINE EXPANSION WILL LEAD TO EXTINCTION OF ORCAS

November 29 - Environmental groups say the government's decision to approve a major pipeline will lead to the extinction of orca whales in B.C. waters. "Today's approval of the Kinder Morgan Trans Mountain project is the approval of the probable extinction of southern resident killer whales in the Salish Sea," said Chris Genovali with the Raincoast Conservation Foundation.

Wildlife advocates say a major oil spill is inevitable, and with the southern resident orca population hovering around 80, it could be bad news for the marine mammals. *CTV News* [Read more and watch video](#)

News reports from around the world (continued)

CANADA: BITUMEN'S IMPACT ON OCEAN LIFE IS UNCHARTED WATER, STUDY FINDS

November 30 - Not enough is known about the impact oil sands bitumen could have on ocean plants and animals to assess the risks of moving it through marine environments, according to a new study.

"Basic information is lacking or unavailable for several key sources of stress and disturbance, making it impossible to carry out a complete risk assessment," said the paper, which draws its conclusion from an examination of more than 9,000 papers on oil and the environment.

The paper has been peer reviewed and will be published next month in the journal *Frontiers in the Ecology and Environment*. Although it has been shared with the federal government, it has not been publicly released. An embargoed copy was obtained by *The Canadian Press*. In light of Tuesday's federal government decision to approve Kinder Morgan's Trans Mountain pipeline from the oil sands to the Pacific coast, two of its authors agreed to discuss its findings. *The Globe and Mail* [Read more](#)

NIGERIA: NOSDRA DEMANDS CRIMINALISATION OF OIL SPILL

November 30 - The National Oil Spill Detection and Response Agency (NOSDRA) has demanded that the National Assembly amends the law of the agency to enable it to criminalise the issue of oil spill.

The Director General of NOSDRA, Sir Peter Idabor, who noted this in Abuja at the 10th anniversary of the agency recently, bemoaned the poor adherence to the law by oil companies.

He said: "When there is an oil spill, most of the oil companies don't respond because of the weak nature of the law; because they are strong with lawyers or have seen so many spaces where they can escape so that is the problem.

"We want the National Assembly to give that enablement to be able it to criminalise the issue of oil spill. If you are an MD and your company is involved in oil spill you go to jail and take responsibility," he added. *Daily Trust* [Read more](#)

UKRAINE: GIANT ARCH, A FEAT OF ENGINEERING, NOW COVERS CHERNOBYL SITE



Picture: An arched shelter was slid into place over the Chernobyl nuclear disaster site in Ukraine on Tuesday. It is about 500 feet long, has a span of 800 feet and is 350 feet high. Credit Sergei Supinsky/Agence France-Presse — Getty Images

November 29 - Resembling an aircraft hangar, a giant arched shelter was slid into place over the Chernobyl nuclear disaster site in Ukraine on Tuesday. The shelter, the world's largest land-based moving structure, is a feat of engineering decades in conception and years in the making.

The arch, which was first designed more than two decades ago and has been under construction since 2010, covers the deteriorating steel and concrete sarcophagus that had been hastily built after

a botched test at the power plant led to an explosion and fire that sent plumes of radioactive ash across Europe 30 years ago. *The New York Times* [Read more](#)

USA: MISSOURI SUPREME COURT RESETS THE RULES FOR COLLECTING LEAKING UNDERGROUND STORAGE TANK CLEANUP COSTS IN LITIGATION

November 18 - An impactful decision from the Missouri Supreme Court will likely affect how leaking underground storage tank ("UST") owners collect cleanup costs from the Petroleum Storage Tank Insurance Fund ("Fund") in the future.

The Fund "is a special trust fund created by the legislature ... to provide insurance to service station owners for cleanup costs associated with spills and leaks from underground petroleum storage tanks." *City of Harrisonville v. McCall Service Stations*, 495 S.W.3d 738, 743 (Mo. banc 2016). *jdsupra.com* [Read more](#)

News reports from around the world (continued)

USA: REGULATORS: TANKER-TRUCK CRASHES AND SPILLS AN INCREASING WORRY ON ALASKA HIGHWAYS



Photo: Big State Logistics response crew offloading fuel from a rolled and damaged secondary tank, Mile 42 of the Richardson Highway. Tsaina River bank is in the background. Oct. 21, 2016. (Photo / ADEC)

November 27 - Federal and state regulators in Alaska say they're working to stem what has been a growing number of tanker-truck accidents in recent years — including three big rollovers since September that dumped thousands of gallons of diesel fuel into woods and wetlands.

Residents in towns along the Richardson Highway where those and many other spills have occurred say they worry an out-of-control fuel tank will slam into traffic or damage fish habitat with a spill, including the salmon-rich Copper River with its prized fisheries.

Observers blame the wrecks on factors such as warming winters that increasingly glaze roads with ice, plus less highway maintenance amid Alaska's fiscal crisis and human errors by truck drivers and other motorists. adh.com [Read more](#)

USA: NOAA - 2016 ACCOMPLISHMENTS: THE YEAR IN REVIEW

NOAA's Office of Response and Restoration works to minimize environmental damages and prepare coastal communities to better deal with the impacts of marine debris, oil spills, and hazardous materials. Our accomplishments in fiscal year 2016 shows our dedication to science-based solutions for protecting and restoring natural resources from coastal hazards.

178. That's the number of oil spills, chemical releases, and other threats we responded to.

28. That's the number of training and response events hosted at the Gulf of Mexico Disaster Response Center.

\$1,807,787. That's the amount awarded for marine debris prevention and removal projects.

1,995 That's the number of people we trained in oil and chemical spill response and planning.

\$67,843,894. That's the amount of dollars for restoration recovered from responsible parties from settlements at two oil spills and one waste site. <http://response.restoration.noaa.gov/2016-accomplishments>

ISCO News

ISCO PRESENTATIONS GIVEN AT TWO EVENTS IN INDIA



November 28 - Capt. D. C. Sekhar, Member of ISCO Council for India, has given two presentations on the work of ISCO at events in India – Meetings of the Chemical and Industrial Disaster Management (CIDM) event at Bhubaneswar on 17th November and the South Asian Association for Regional Co-operation (SAARC) meeting of senior disaster management officials from SAARC countries on 22nd November.

Capt. Sekhar described the role of ISCO in promoting international co-operation, technical development and professional competency in oil and chemical spill response. Through its members in 48 countries, ISCO provides a single point of contact for accessing a huge resource of emergency support for responding to major spill events. The countries represented in SAARC are Afghanistan, Bangladesh, Bhutan, Maldives, Nepal, Pakistan and Sri Lanka.

EVALUATION

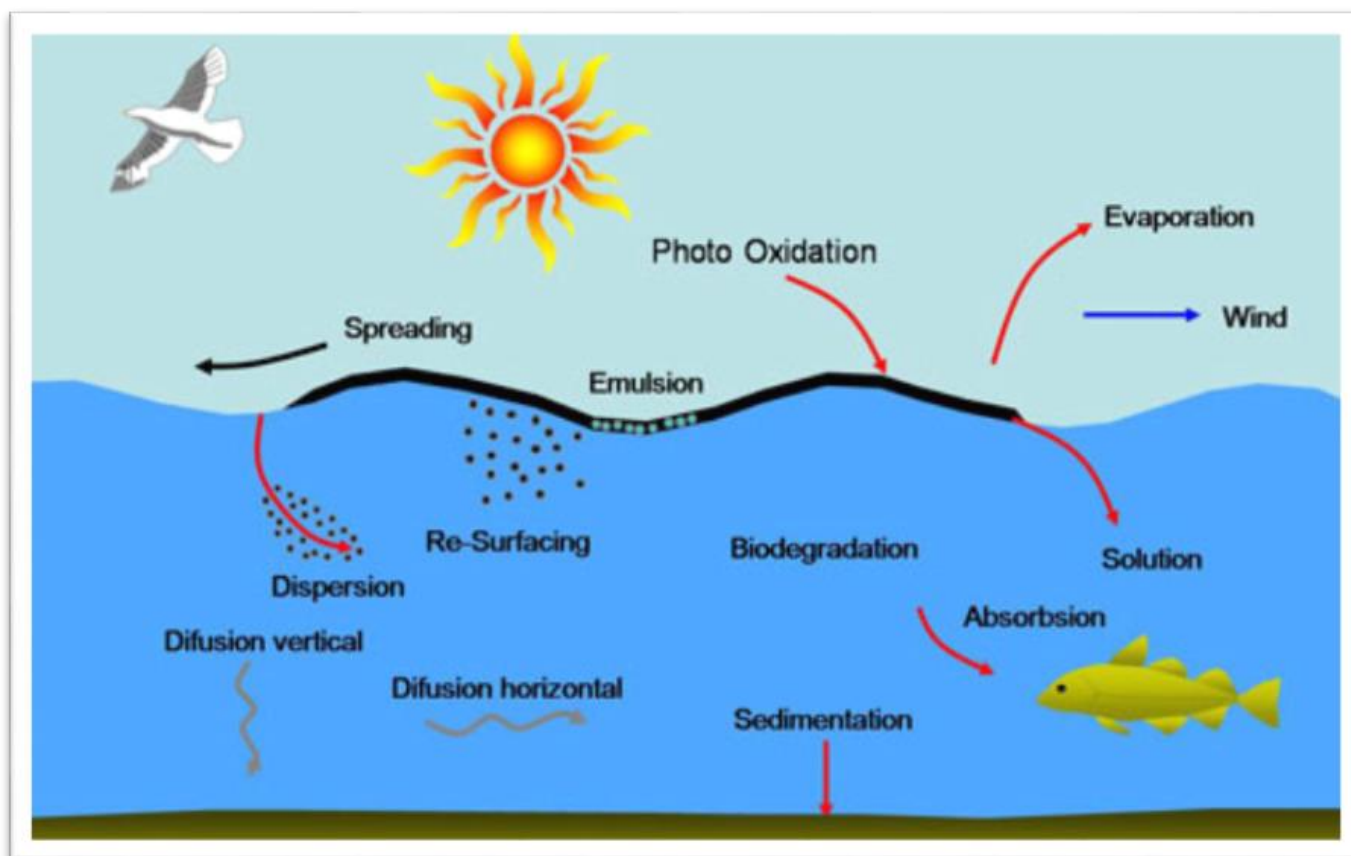
A new series of articles contributed by Mark Francis of Oil Spill Solutions



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 8

Weathering or the Fate of oil



Crude oils and refined petroleum products are mixtures of a large number of components, each with its own chemical and physical properties.

Once oil is spilled, it immediately begins to undergo many natural, physical, chemical and biological changes.

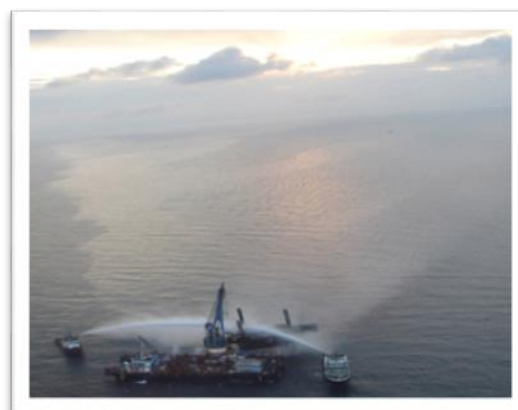
These processes are assisted by the following

Spreading and Movement by waves, winds and currents.

Spreading and drifting of the oil occurs immediately after oil enters the water and occurs as a result of interacting forces including gravity, wind and surface tension.

This process is also directly influenced by the viscosity of the oil. The less viscous the oil, the more it will spread and increase the area of water covered by an oil slick.

Additionally, tides, currents and the weather influence the rate of spreading.



Evaporation.

The process whereby any substance is converted from a liquid state to become part of the surrounding atmosphere in the form of a vapour.

Evaporation involves the loss of lower molecular weight, more volatile molecules and can be responsible for the loss of 20 to 50 percent of the spilled oil. For these oils, spreading increases evaporation rates because it increases the surface area of the spill allowing for more evaporation.

Additionally rough seas; high wind speeds and warm temperatures can increase evaporation rates.

Solution and Dilution.



Dissolution is the chemical stabilisation of oil components in water.

Dissolution accounts for only a small portion of oil loss, but it is still considered an important behavioural parameter because the soluble components of oil, particularly the smaller aromatic compounds, are more toxic to aquatic species than the aliphatic components.

Emulsification.

Wave action and wind cause the incorporation of water droplets into the oil.

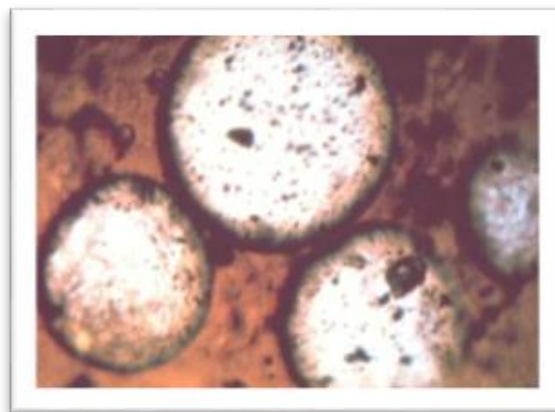
Emulsification increases the viscosity and the thickness of the oil slick and can make the clean up more difficult.

Some oils are easier to emulsify than others and one factor that affects emulsification rate is the metal content of the oil.

For example, oils with high asphaltene content will promote emulsification.

Asphaltenes, complex compounds containing metals such as nickel and vanadium, are the heaviest and most aromatic components found in crude oil. More viscous oils will emulsify at slower rates than less viscous oils.

Emulsions become more viscous and stable as more water is incorporated into the oil (70%-80% water). Unlike dispersion or evaporation which reduces the amount or concentration of oil, emulsification increases the volume of oil, sometimes by as much as four-fold.



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 all 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

To be continued

9 TIPS FOR SAFELY STORING CHEMICALS



The U.S. Chemical Safety Board has documented the frequency of chemical accidents as well as the devastation they can cause for workers and communities. Even a cursory review of the organization's website reveals the need for chemical safety standards. Below are nine key safety tips for plants that store chemicals.

1. Develop a Chemical Hygiene Plan

The Occupational Safety and Health Administration (OSHA) specifies certain elements that must be included in a plant's chemical hygiene plan. These requirements are spelled out in the details of 29 CFR 1910.1450.

2. Never Skimp on Training

Industrial accidents cost industry millions of dollars every year, but safety is much more than a budgetary line item. It is an important responsibility to workers and their communities. To ensure the safest possible operations, provide regular training to every employee who comes in contact with chemicals. The training should cover how to handle and package the material, the required safety gear, and emergency and evacuation procedures in the event of a spill. Training should be repeated at frequent intervals so that it is fresh in the minds of all employees.

3. Standardize Procedures

While every chemical has some unique aspects for safe handling, there also are many steps that apply for all chemicals.

To make it easy for your team to follow safe handling procedures, start with the common steps, such as always wearing safety equipment and inspecting containers before putting chemicals in them. This helps reinforce the basics and makes it easier to follow the unique requirements of specific chemicals.

4. Practice Good Housekeeping Techniques

Neatness counts when it comes to safety. Keeping aisles clean and clear will prevent trips and falls, and putting tools or equipment away after use will help to avoid incidents such as dropping or knocking containers of chemicals off benches and tables.

5. Provide High-quality Safety Gear

Doing everything you can to keep your employees safe includes providing the right high-quality protective clothing and gear to protect them while handling chemicals. OSHA specifies the equipment that should be provided and requires that it meet the quality standards established by the American National Standards Institute (ANSI). Provide training and instruction on the usage of the safety gear, and ensure that people use it at all times.

6. Ensure Adequate Ventilation

Many chemicals are volatile and can cause issues even at low concentrations. To prevent problems, verify that the heating, ventilation and air conditioning (HVAC) systems in place are operating effectively and that they are adequate for the space. Consider adding additional fans if necessary to meet OSHA indoor air quality guidelines.

7. Use Tools and Containment

Using containment trays when handling volatile or dangerous chemicals is a good practice that can limit the damage from accidental spills. In addition, before transferring chemicals from one container to another, it should be a standard operating procedure to inspect all containers to confirm they are clean and free from chips or cracks.

Some chemicals require storage in air-tight containers; others need to be stored in a specific temperature range or in containers made of certain materials. Your team should know where to find the documentation for safe handling of every chemical you use. You must also have the right containers available for every chemical on your premises.

8. Segregate Incompatible Chemicals

Some chemicals ignite, explode or burn when combined, so keep them segregated unless your process requires them to be mixed. To prevent accidental combinations due to spills or vapors, store these incompatible substances at a safe distance from each other. Designate different areas of the stockroom for each chemical and make sure material handlers understand the importance of keeping them segregated.

Technical support (continued)

9. Practice Spill Response

Accidents happen, so your team must know what to do in the event of a chemical spill. As is the case with fire drills and other emergency procedures, you should have spill-response drills and well-documented procedures. Take the time to train people on the correct procedures. These drills should be taken seriously and occur at intervals that are frequent enough so people will know what to do.

By following these guidelines for the proper handling of chemicals, you can help ensure the safety of your team and community.

About the Author - Lynn Place has 30 years of professional experience in the manufacturing, market research and advertising industries. Lynn is the vice president of marketing for [SolvChem Custom Packaging Division](#), specializing in consumer packaged goods, new product development and strategic planning. This article is reproduced here with acknowledgement to the author and to [Reliable Plant](http://reliableplant.com/)

Publications

IOPC FUNDS: NEW 1992 FUND CLAIMS MANUAL

November 21 - the 6th edition of the 1992 Fund Claims Manual is now available to download via the [publications page](#) of the IOPC Funds website. This latest edition, which is available in English, French and Spanish, incorporates the recently approved text regarding compensation for claims for VAT by central governments.

In light of the ongoing development of the online claims submission system and the discussions within the IOPC Funds governing bodies in relation to the presentation of claims for environmental damage, there is a possibility that further amendments to the text of the Claims Manual may be required in 2017.

For that reason, this 6th edition is not currently available in hard copy and a decision will be taken with regard to the further amendment or printing of the Claims Manual at the April 2017 sessions of the governing bodies. <http://www.iopcfunds.org/>

IMO: LATEST ISSUE OF IMO PUBLISHING NEWSLETTER

This contains info on new and forthcoming publications including Operational Guidelines & Oil Removal Techniques, 2016 Edition (product code I583E, price £15) in January 2017

http://www.imo.org/en/Publications/Documents/Newsletters%20and%20Mailers/Newsletters/nov_b2c.html

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	October 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	November 2016
Intertanko Weekly News	International news for the oil tanker community	December 2, 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	November 2016 issue
Pollution Online Newsletter	News for prevention & control professionals	November 30 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	October 1-15, 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	December 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

UPCOMING EVENTS SUMMARY

COUNTRY	2016	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
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
JAPAN	February 2	PAJ Oil Spill Workshop 2017	Tokyo
UK	March 7	UK Spill Annual Members' Meeting and Dinner	London
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
USA	June 27-28	Clean Waterways	Louisville KY
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

ISCO MEMBER, AQUA-GUARD AWARDED RULEBREAKER AWARD AT NEXTCON16 IN SCOTTSDALE, ARIZONA, USA

November 21 - Nigel Bennett - Founder of Aqua-Guard accepted the Rule Breaker Award for best established business on behalf of his company, he commented:

"I am honored to accept this award on behalf of Aqua-Guard Spill Response tonight. I would like to thank all the dedicated staff at Aqua-Guard back in Vancouver and our support network around the world for for making a difference, creating innovation and leadership in our field along with creating a platform for social change.

Aqua-Guard was chosen from over 2,000 companies around the U.S. and Canada for this meaningful award, which means we have created something with purpose. Aqua-Guard continually leads the path to new innovation for the protection of our world's oceans and our greatest resource - water. *Aqua-Guard* [Read more](#)

ISCO MEMBER, ALPHAMERS, LISTED IN ASSOCHAM INDIA'S TOP SME 50 INDEX

November 28 - Based on the assessment by the Jury for the Fourth ASSOCHAM SMEs Excellence Award 2016, AlphaMERS was amongst the top finalists and the Jury strived to take the final decision as the nomination was a tough contest for the Winner.

The Associated Chambers of Commerce of India is delighted to share with you that since your organization was one of the best companies, therefore your company has been enlisted in ASSOCHAM India's TOP SME 50 Index. We express our heartiest congratulations to you for this commendable and outstanding achievement.

The Certificate of Excellence for this achievement and the company's outstanding performance will be awarded to AlphaMERS at a gala event to be held on 06th December, 2016 at Hotel The Park, New Delhi from 10:00 AM onwards. <http://www.alphamers.com/>

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