



ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for profit organization 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 Intergovernmental, Governmental, NGO's and interested groups and individuals

ISCO holds consultative status at the International Maritime Organisation and observer Status at International Oil Pollution Compensation Funds

ISCO COMMITTEE & COUNCIL

ISCO is managed by an EXECUTIVE Directors

- Mr David Usher, President (USA)
- Mr Matthew Sommerville, Secretary (UK)
- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalgleish, VP M'ship (USA)

Members

- Mr Li Guobin (China)
- M. Jean Claude Sainlos (France)
- Mr Kerem Kemerli (Turkey)
- Mr Marc Shaye (USA)
- Mr Dan Sheehan (USA)
- Captain Bill Boyle (UK)
- Lord Peter Simon Rickaby (UK)

Assisted by COUNCIL

(National Representatives)

- Mr John Wardrop (Australia)
- Mr Osman Tarzumanov (Azerbaijan)
- TBA (Brazil)
- Dr Merv Fingas (Canada)
- Captain Davy T. S. Lau (China)
- 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)
- Major Ben Benny (Israel)
- Mr Sanjay Gandhi (Kenya)
- Mr Dennis van der Veen (Netherlands)
- Chief Kola Agboke (Nigeria)
- Mr Carlos Sagrera (Panama)
- Captain Chris Richards (Singapore)
- Mrs Fatima B. Shaik (South Africa)
- Dr Ali Saeed Al Ameri (UAE)
- Mr Kevin Miller (UK)
- Dr Manik Sardessai (USA)

INTERNATIONAL NEWS

CLICK ON THE BANNERS BELOW FOR MORE INFO ON THE EVENTS FEATURED



OIL SPILL CONTINGENCY PLANNING IN SOUTH EAST ASIA



August 20 - One of the key elements in oil spill contingency planning is to define the communication channels to be used by cooperating parties when facing an incident. A workshop in Pulau Indah, Klang, Malaysia (19-21 August) has brought together officials from states in the Association of Southeast Asian Nations (ASEAN), to help bring into operation the Regional Oil Spill Contingency Plan, which was adopted in 2018. Participants from nine countries got to grips with key elements of the plan and practised communications between States, in order to identify any gaps and lessons to be learned. The workshop will help drive forward the implementation of this recently adopted plan.

This workshop is being carried out under IMO's Integrated Technical Cooperation Programme and hosted by the Government of Malaysia and the Marine Department of Malaysia, at the Maritime Transport Training Institute, under the framework of the

MEMBERSHIP OF ISCO

[Benefits of Membership](#)

[Online Membership Application Form](#)

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.

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

[About Professional Membership](#)

[Application Form \(Professional Membership\)](#)

TO RECEIVE THE FREE ISCO NEWSLETTER

Go to 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)

Global Initiative project for South East Asia (GI SEA), a joint project with the oil and gas industry (ipieca). It supports the implementation of IMO's Convention on Oil Pollution Preparedness, Response and Co-operation (the OPRC 90 Convention).

The Regional Oil Spill Contingency Plan provides for a mechanism whereby ASEAN Member States can request for and provide mutual assistance in response to any oil spills. It also ensures a common understanding to enable the effective integration between the affected and assisting ASEAN Member States, in the event of incidents involving oil spills. [IMO "What's New"](#)

REGIONAL BRAINSTORMING ON THE UN DECADE OF OCEAN SCIENCE

August 20 - Some 150 representatives from academia, governmental agencies, international organizations, industry and non-governmental organizations met in Tokyo, Japan in August 2019 to brainstorm approaches for achieving the objectives of the UN Decade of Ocean Science for Sustainable Development.

The UN Decade proclaimed by the United Nations General Assembly in December 2017 endeavors to provide countries full support to achieve the 2030 Agenda Sustainable Development Goals through ocean science. The Tokyo meeting, organized by the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization's Sub-Commission for the Western Pacific, was to raise awareness about the Decade, identify knowledge gaps and science questions, develop an understanding of existing and potential scientific initiatives, programmes,

partnerships and resources, and elaborate issues on capacity-building, information sharing and communications.

NOWPAP/ [Read more](#)

HAPAG-LLOYD TO FINE SHIPPERS \$15,000 PER BOX FOR ANY MISDECLARED HAZARDOUS CARGOES



August 7 - With misdeclared hazardous cargoes sparking many dangerous fires on boxships around the world, Germany's top liner has taken severe action – imposing a fine of \$15,000 per wrong container. Hapag-Lloyd suffered a high profile fire on one of its ships, Yantian Express, earlier this year, that raged for weeks and caused millions of dollars of damage. The new fines system comes into play from September 15.

Hong Kong's Orient Overseas Container Line (OOCL), now a unit of China-based Cosco, also detailed plans yesterday to crack down on misdeclared dangerous and hazardous cargo. According to the Cargo Incident Notification System (CINS), nearly 25% of all serious incidents onboard containerships are attributable to misdeclared cargo. Splash 247 / [Read more](#)

[Editor: Other shippers are doing this too – See Page 2 in last week's newsletter]

NEWS REPORTS FROM AROUND THE WORLD (COUNTRIES LISTED IN ALPHABETICAL ORDER)

Your editor does his best to monitor a limited number of websites for news (in English language) of interest to the international spill response community but does not have the resources to monitor multiple social media platforms. The message is "If you have news you would like to share with readers of the ISCO Newsletter in over 60 countries (including your own country), you should send it by email to the editor john.mcmurtrie@spillcontrol.org"

AUSTRALIA: NEW GUIDANCE FOR DANGEROUS GOODS STORAGE AND HANDLING

August 16 - Following consultation with industry, the Department has released a new guide developed for the storage and handling of non-explosive dangerous goods in Western Australia.

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

This guide provides practical guidance on how to comply with the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007, for persons who manufacture, import, supply, store or handle dangerous goods and all persons at dangerous goods sites.

A key focus of the Dangerous Goods Safety Act 2004 is the duty to minimise risk from dangerous goods. The duty to minimise risk not only applies to employers and employees but to all persons, including members of the public. This duty is placed on everyone involved with dangerous goods and goes beyond the workplace duties of the Occupational Safety and Health Act 1984 and the Mines Safety and Inspection Act 1994.

The guide applies to substances, mixtures and articles which are defined as dangerous goods under the Regulations.

More info / [Source document](#) [Download the Guide](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

AUSTRALIA: MONTARA OIL SPILL: SITE'S NEW OPERATOR REJECTS SUGGESTION IT COULDN'T AFFORD SECOND CLEAN-UP



Photo: Oil leaked from the faulty rig in the Montara field in the Timor Sea. Photograph: Annabelle Sandes/AFP/Getty Images

August 20 - The new operator of the site of Australia's worst ever oil spill has dismissed concerns it might not have the financial capacity to clean up should disaster strike again.

Jadestone has never made a profit but the company's chief executive, Paul Blakeley, told the Guardian it was fully insured to cover the cost of cleaning up a major spill, which can run into the hundreds of millions of dollars. The Guardian / [Read more](#)

BANGLADESH: THIS COUNTRY GAVE ALL ITS RIVERS THEIR OWN LEGAL RIGHTS

Photo: An aerial view of a river in Bhimruli, Jhalokathi, Bangladesh. All rivers in the country now have legal rights. Mohammad Saiful Islam/NurPhoto via Getty Images

August 18 - Bangladesh is sometimes known as the "land of the rivers." It's got hundreds of them — and over the years, they've been getting more and more polluted. But as of early July, every single one of them has a remarkable new level of protection: The Bangladeshi Supreme Court has given all rivers in the country legal rights.

Now, people who damage a river can get taken to court by the government-appointed National River Conservation Commission. They'll be tried as if they'd harmed a living entity, because each river now has the right to life. That means the river's government-designated human representatives can sue on its behalf when it's being endangered. Vox / [Read more](#)



CANADA: B.C. JUDGE RULES INSIDE PASSAGE FUEL SPILL FINE BE PUT INTO ENVIRONMENTAL DAMAGE FUND



Photo: Tugboat Nathan E. Stewart sits in the Inside Passage on B.C.'s coast after sinking in Oct. 2016. Heiltsuk Nation / PNG

August 20 - A B.C. judge has ruled that close to \$3 million in fines imposed on the operator of a tug that hit a reef and sank in the Inside Passage in 2016 be handed to put into an environmental damage fund administered to benefit the Heiltsuk Nation.

In a reasons for judgment released last week by provincial court judge Brent Hoy, he said the combined fines of \$2.7 million issued under the Fisheries Act, \$200,000 under the Migratory Birds Convention Act and \$5,000 under the Pilotage Act be put into an environmental damage fund that will be administered by Environment Canada. Vancouver Sun / [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

KENYA: KENYANS WON'T PAY FOR 11M LITRES SPILLED OIL – EPRA



Photo: A crowd gathers around an inspection trench sunk by Kenya Pipeline Company to check the spread of oil following a leak.

August 22 - Kenyans will not meet the costs arising from the loss of 11 million litres of fuel along the country's pipelines reported last year, the energy regulator has said.

The Kenya Pipeline Corporation in practice passes the cost incurred from losses along the fuel pipeline to consumers at the pumps.

But the Energy and Petroleum Regulatory Authority yesterday said it only allows losses that are technical in nature, such as evaporation, to be passed to the consumer. The Star / [Read more](#)

NIGERIA: NOSDRA TO LAUNCH VESSEL FOR OIL SPILL RESPONSE

August 17 - The National Oil Spill Detection and Response Agency (NOSDRA) says it will soon launch a vessel that will respond to oil spill cases in the maritime area in the Niger Delta Region.

The zonal head of the national spill detection and remediation agency, Cyrus Nkangwung told Rhythm FM correspondent, Precious Ahiakwo that the Vessel named Oil recovery one when in operation will recover oil spill from the surface of the waterways into the vessel. FR News / [Read more](#)

NIGERIA: OIL SPILL IN RIVERS: OVER 50 INCIDENT HAPPEN FOR DI STATE IN TWO MONTHS – NOSDRA

August 18 – [News in Pidgin English] - Di National Oil Spill Detection and Response Agency NOSDRA say dem record over 50 oil spills for Rivers state, south south Nigeria, between di month of June and July, 2019.

Zonal Head of NOSDRA Port Harcourt Office, Cyrus Nkangwung tell BBC Pidgin say dem record over 40 spills for June and over 17 spills for July. "Apart from two wey be operational errors, di rest na because of sabotage."

"Place like Emeagor Kugbor now my pipo dey dia, di area dey difficult to work as na swamp and e get plenti points wey dis spill dey happun because of bunkering activities for di same line.



"So you clean today, tomorrow anoda one go happun. Den along Imo river na anoda notorious part wia spill and illegal activities dey go on almost on daily basis, so all dis parts dey highly devastated." Na so Nkangwung tok. BBC Pidgin / [Read more](#)

USA: EPA RELEASES UPDATED CERCLA COMMON ELEMENTS GUIDE

August 7 - The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) imposes strict, joint and several, retroactive liability on property owners and operators for releases of hazardous substances. However, there are certain steps (or "common elements") that a prospective property owner or operator must establish to achieve and maintain one of the three statutory liability defenses under the 2002 Brownfields Amendments to CERCLA.

The U.S. Environmental Protection Agency (EPA) recently released its long-awaited Enforcement Discretion Guidance Regarding Statutory Criteria for Those Who May Qualify as CERCLA Bona Fide Prospective Purchasers, Contiguous Property Owners, or Innocent Landowners (Guide). The 2019 Guide supersedes the 2003 Interim Guide on this topic.

This Holland & Knight alert outlines immediate practice pointers that can be gleaned from the Guide, provides a brief overview of key elements of the statutory liability defenses and summarizes significant changes in the new Guide. HK Law / [Read more](#)

USA: THE U.S. COAST GUARD PUBLISHES UPDATED MARINE CASUALTY REPORTING FORMS (CG-2692)

August 9 - The updates to these forms are primarily technical, including an updated internet link for the United States Coast Guard Organization Chart which lists the USCG units to whom reporting should be made.

Reporting requirements for marine casualties generally apply to (1) any vessel involved in a casualty that occurs upon the navigable waters of the United States, its territories, or possessions; (2) U.S.-flagged vessels wherever such casualty occurs; (3) foreign-flagged vessels engaged in Outer Continental Shelf activities; and, (4) foreign-flagged tank vessels operating in waters subject to the

jurisdiction of the United States, including the EEZ, where the casualty involves significant harm to the environment or material damage affecting the seaworthiness or efficiency of the vessel. Not all casualties require reporting. The report forms summarize the types of incidents that require reports. A full description of the types of incidents that require reports are set out in 46 CFR § 4.05-1 Hellenic Shipping News / [Read more](#)

USA: NORTH DAKOTA - A COVER-UP OR “FAKE NEWS”

Last week your editor came across a “single source” report that referred to the July 2015 “Garden Creek” pipeline spill in North Dakota. The article suggests that this spill is “officially listed as 10 gallons” but, over a three year period, “over 11 million gallons of condensate” leaked from the pipeline. If the quoted “whistleblower” allegation and certain other comments in the article are correct, the matter raises some very serious regulatory issues. Your editor is very wary of promulgating what might be “fake news” and would welcome comment from members / readers who can throw more light on the matter.

USA: SAN ANTONIO RESEARCHERS SEEK TO PREVENT AEROSPACE FAILURES AND OIL SPILL DISASTERS

August 22 - In 2014, Kazakhstan’s newest and largest oil field was slated to become a major contributor to the global supply. But within a month of operation, a total shutdown occurred. Without warning, large cracks appeared in its pipelines. For the next two years, the field remained idle due to costly repairs. The cause: embrittlement of the pipelines.

Like bones, oil and gas pipelines suffer from fragility and cracking. Now a group of researchers at The University of Texas at San Antonio (UTSA) and Southwest Research Institute (SwRI®) propose to examine how hydrogen embrittlement conditions develop. Their research is focused on an alloy used in the oil and gas industry, but fabricated through additive manufacturing (AM). USA Today / [Read more about this research project](#)

USA: SIERRA CLUB: GOV. SIGNS SELLOUT SITE REMEDIATION LAW, SHUTS PUBLIC OUT OF CLEANUPS

August 23 - Gov. Signs Sellout Site Remediation Law, Shuts Public Out of Cleanups - Governor Phil Murphy today signed into law A5293 (Pinkin)/S3682 (Smith) concerning regulation of solid waste, hazardous waste, and soil and fill recycling industries. The law makes several changes to regulations governing remediation of contaminated sites. The law amends aspects of the state’s LSRP (Licensed Site Remediation Specialists) program overseeing site cleanups. Insider NJ / [Read more](#)

USA: LATEST ACTIVITY REPORTS FROM NOAA OR&R

August 23 – Please click on the links below to read the latest News Reports from NOAA OR&R

[OR&R Participates in Hawaiian Electric Worst-Case Oil Spill Exercise](#)

On August 9 the Office of Response and Restoration’s Emergency Response Division participated in a Hawaiian Electric Company worst-case oil spill exercise held in Honolulu, Hawaii.

[Marine Debris Program Joins Derelict Aquaculture Gear Removal in Provincetown, Massachusetts](#)

On August 6, the NOAA Marine Debris Program’s Northeast Regional Coordinator, Demi Fox, joined partners at the Center for Coastal Studies and the Provincetown Harbormaster’s Office for a marine debris cleanup in the Provincetown intertidal area known as the “west end flats.”

[OR&R Hosts USCG Sector Honolulu Incident Management Team at Inouye Regional Center in Honolulu](#)

OR&R’s Emergency Response Division, with assistance from partners with the NOAA Pacific Services Center and NOAA Pacific Fisheries Science Center, hosted visitors from the U.S. Coast Guard (USCG) Sector Honolulu Incident Management Team at the Inouye Regional Center in Honolulu, Hawaii on August 14.

[OR&R Leads Delaware River Urban Water Federal Partnership Meeting](#)

OR&R’s Simeon Hahn of the Assessment and Restoration Division organized and led the Delaware River Urban Water Federal Partnership meeting at the Delaware Department of Natural Resources and Environmental Control (DNREC) office in Dover, Delaware, on Aug 7.

[Marine Debris Program Meets with Foreign Journalists from Indo-Pacific Region](#)

On August 8, the NOAA Marine Debris Program’s Director, Nancy Wallace, spoke to a group of seven foreign journalists from Malaysia, Vietnam, Cambodia, Laos, and Indonesia during a State Department-sponsored reporting tour covering American policy topics: “The U.S. Vision for the Indo-Pacific Region.”

[Marine Debris Program Facilitates First National Ocean Service Zero Waste Workshop](#)

On July 31, the National Ocean Service (NOS) Zero Waste Team, comprised of 13 representatives from NOS program offices and NOS

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

headquarters, came together at the first Zero Waste Workshop in Silver Spring, Maryland.

[New NOAA Report on Optimizing Remote Sensing to Characterize Oil Spill Slicks](#)

The [Deepwater Horizon](#) oil spill lasted for 87 days, discharged millions of barrels into the Gulf of Mexico, and posed unprecedented challenges for oil spill experts. Following the damage assessment some of the “oil on the water” group, a team of remote sensing experts, continued to further develop and validate what they knew about characterizing oil slicks for the largest spill in American history.

[Marine Debris Program Contributes to California Zero Waste Conversations](#)

On August 13, the NOAA Marine Debris Program's California Regional Coordinator, Sherry Lippiatt, presented on marine debris prevention strategies at the California Resource Recovery Association Conference.

[Marine Debris Program Presents at Delaware Debris Management Training](#)

On August 6 and 7, the Federal Emergency Management Agency (FEMA) Region III and the Delaware Emergency Management Agency led a debris management training for emergency responders in Dover, Delaware.

[Building Relationships and Assessing Marine Debris in CNMI and Guam](#)

During the week of August 5, the Marine Debris Program's Pacific Islands Regional Coordinator, Mark Manuel, and Communications & Outreach Coordinator, Shanelle Naone, traveled to Saipan and Guam to learn more about how the west Pacific island communities are impacted by marine debris.

ISCO News

ISCO AT CLEAN GULF 2019 IN NEW ORLEANS

Your Secretary, Matthew Sommerville, is pleased to announce that ISCO will be at Clean Gulf being held in New Orleans on October 27-31. The ISCO booth in the Exhibition Hall is No. 122. It is anticipated that ISCO President David Usher, Secretary Matthew Sommerville and Membership Director Mary Ann Dagleish will be in attendance and looking forward to seeing you.

For those ISCO members who are not planning to attend the conference or who might want to consider adding some staff for the exhibition only. Please get in touch and we will share with you our VIP code and free access to exhibition. While attending the conference and exhibition is the best way to get value the opportunities to meet, renew acquaintances and see the latest kit and services in the exhibition is a good alternative. In addition we are always happy to see members and it's your opportunity to participate in our usual malt whisky raffle.

ISCO AGM AGENDA UPDATE

Your Secretary is liaising with the Clean Gulf organisers over the AGM arrangements. The date, venue and time will be announced as soon as possible.

The Meeting Agenda, Secretary's Report and other papers are under preparation and will be circulated to Members as soon as available. For Members who are unable to attend the AGM, a proxy voting form will be included in the circulated papers. Any Members wishing to raise matters for inclusion in the Agenda should communicate with Matthew Sommerville in the near future by email - matthewsommerville@hotmail.co.uk

NEWS FROM ISCO MEMBERS

BRIGGS ENVIRONMENTAL RESPONDING TO SPILL IN SCOTLAND



Aug 15 We are currently involved in a clean-up operation in North Queensferry between The Forth road bridge and The Queensferry Crossing following a large scale oil spill. This is the second oil spill that we have responded to in Fife in a matter of months. <https://www.briggsmarine.com/>

INDIA: ALPHAMERS TRASH BARRIER IN SUCCESSFUL OPERATION

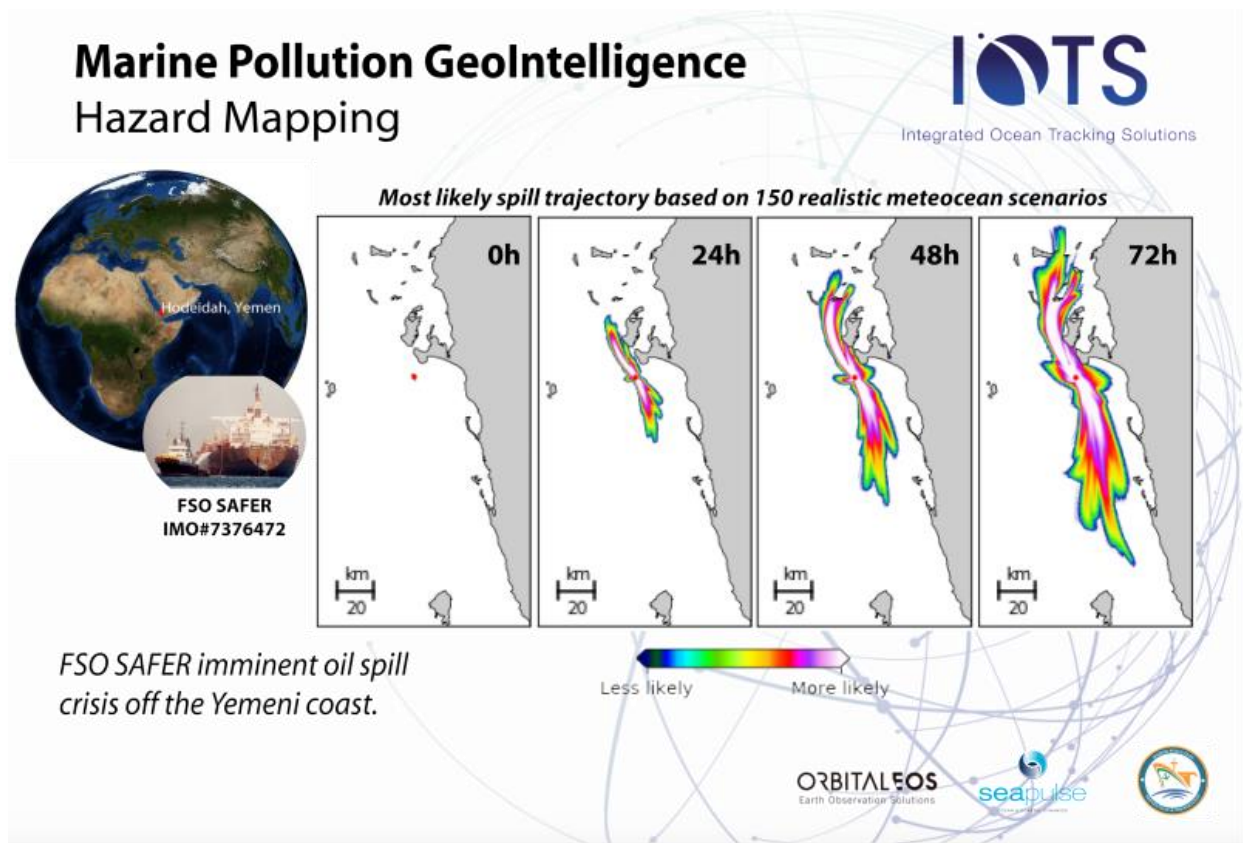


AlphaMERS' designed floating trash barriers is now deployed in Bengaluru, Puducherry, Tuticorin and Chennai. This floating trash barrier has stopped over 22000 tons of weed, plastics and trash, including 2200 tons of plastics from reaching the oceans as per 'The Hindu' dtd 30th Jan 2019. [View video](#)

Under development is a 'hydroponic carpet' to deploy in open drains to treat polluted drain water (Prototyping stage)

<https://www.alphamers.com/>

YEMEN: ORBITAL EOS AND PARTNERS DEVELOP OIL SPILL TRAJECTORY



In the case of the FSO SAFER, the Integrated Ocean Tracking Solutions consortium (IOTS) believes that the environmental disaster can be minimized with appropriate marine pollution geointelligence tools which contribute to the planning and design of concrete actions to avoid a disaster or help to control a situation. In case of a spill, a fast-oil movement hazard map was devised to support the initial UNOPS work. The results show a preferential oil movement along the coast, potentially impacting the Yemeni governorates of Al Hudaydah and Hajjah. The IOTS assessment relies on about 150 spill scenarios based on realistic meteo-oceanographic conditions of the last 4 years. The oil spill movement hazard map is part of an innovative IOTS product on integrated planning, orbital monitoring and response. IOTS is a consortium formed by three companies: Marine Pollution Prevention & Preparation SA (ecogester.wixsite.com), SeaPulse (www.seapulse.pt) and OrbitalEOS (www.orbitaleos.com). For further info, iots@seapulse.pt. [hashtag#fsosafer](#) [hashtag#oilspill](#) [hashtag#disaster](#) [hashtag#marinepollution](#) [hashtag#pollutionprevention](#) [hashtag#iots](#) [hashtag#hazardmapping](#) [hashtag#unops](#)

News from ISCO Members – Your editor welcomes news from members. Please ensure that ISCO is on your mailing list for your press releases and company newsletters. Send your news to john.mcmurtrie@spillcontrol.org

SCIENCE & TECHNOLOGY

CONTAMINATION-EATING MICROBES DEVELOPED AT UNIVERSITY TO BE TESTED IN FIELD



Photo: Technicians collect core samples from a hydrocarbon-contaminated aquifer near Barrie, Ont. U of T's Elizabeth Edwards and her partners have developed bacterial cultures designed to clean up such sites by breaking down contaminants (photo by Courtney Toth)

August 9 - For years, the University of Toronto's Elizabeth Edwards and her team have been developing a potent mix of microbes that can chow down on toxic chemicals. Now, they are preparing to let them loose in the wild for the first time.

The bacterial cultures are designed to treat a set of contaminants known as BTEX – benzene, toluene, ethylbenzene and xylene. BTEX chemicals are commonly found in soil and groundwater where crude oil and its products have been used, such as old gas stations and oil refineries.

SCIENCE & TECHNOLOGY (CONTINUED)

"If we can use this technology to make environmental remediation more effective over the long term, while also making it less costly to deploy, the result is that more sites will ultimately get cleaned up," says Edwards, a University Professor in the Faculty of Applied Science & Engineering's department of chemical engineering and applied chemistry. Mirage News / [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

TRAINING

UK & IRELAND: PROVISIONAL PROGRAMME RELEASED FOR ANNUAL ISAS TRAINING DAYS



The Provisional Programme has been released for the ISAS Training Event being held at Castle Archdale, Enniskillen, Northern Ireland. The date is 25-26 October 2019.

This event is being held in the beautiful surroundings of Lough Erne and early booking is recommended.

If you haven't already had a summer break from work, why not think of combining your refresher training with a sojourn in Enniskillen – Golf, Fishing, Boating, Sights to see and lots of other things to do

Visit: [https://www.tripadvisor.co.uk/Attractions-g190795-Activities-Enniskillen County Fermanagh Northern Ireland.html](https://www.tripadvisor.co.uk/Attractions-g190795-Activities-Enniskillen%20County%20Fermanagh%20Northern%20Ireland.html)

Download the training programme agenda at http://spillcontrol.org/downloads/Agenda_for_Castle_Archdale_25th.docx

ONLINE TRAINING - CERTIFICATE IN OIL SPILL RESPONSE

Lloyds Maritime Academy - Our Certificate in Oil Spill Response has been designed in line with the OPRC Convention and is extremely important for first-line responders in the oil and offshore industry. This training course will deal with essential safety when attending to oil spills and will give you a full understanding of the safety precautions of oil and chemical spills in the marine and coastal environments.

Starts: 27th November 2019
Duration: 12 weeks

Course director: Colin Drake
Delivered via distance learning

10% discount available until 6th
September 2019

[View Course Content](#)

NEW PRODUCTS & SERVICES

TDHI - MODEL TD-560 - OIL IN WATER ANALYZER



August 15 - Turner Designs Hydrocarbon Instruments proudly announces the all new dual-channel TD-560 Oil in Water Analyzer. In addition to the optical channel found in the TD-550, suitable for crude and other heavy oils, the TD-560 adds a second channel for detecting lighter hydrocarbons, such as BTEX, gas condensates, gasoline, jet fuel, kerosene, transformer oils, styrene and phenol. The TD-560 offers a greatly enhanced detection range (low ppb to 5000 ppm) over most oil in water analyzers. Environmental Expert / [More info](#)

SEA MACHINES DEMONSTRATES WORLD'S FIRST AUTONOMOUS OIL SKIMMER

August 21 - Boston-based Sea Machines Robotics says that it has successfully demonstrated an autonomous system on board an MSRC-owned skimmer boat, making it the first autonomous vessel of its type in the world.

The on-water demonstrations took place at a marina in Portland, Maine before a live audience of government and industry representatives, including the U.S. Maritime Administration. (MARAD entered into a cooperative agreement with Sea Machines earlier this year on the terms of the exercise.)



From a shoreside location at Portland Yacht Services, a Sea Machines operator put the boat through its paces, including remote autonomous control, ENC mission planning, autonomous waypoint and grid operations, multi-vessel collaboration, and remote payload control for spill response equipment.

“Our operation of the world’s first autonomous, remote-commanded spill-response vessel is yet another significant industry first for Sea Machines,” said Michael G. Johnson, founder and CEO of Sea Machines.

The Maritime Executive / [Read more](#)

WILD WELL CONTROL ADDS NEW 10,000 PSI-RATED CAPPING STACK TO WELLCONTAINED PROGRAM

August 22 - Wild Well Control, a global leader in well control and engineering services, has added a new 10,000 psi-rated capping stack to its WellCONTAINED group of subsea containment equipment.

The 10,000 psi-rated stack is rated to water depths of 10,000 ft, and will play a vital role in supporting quick and effective service for subsea well control events in Northern Europe. The stack’s modular design facilitates efficient deployment by crane vessel or drilling rig and regional coverage includes the following areas: North Sea; Baltic Sea; Celtic Sea; Irish Sea; Norwegian Sea; Barents Sea; and the North Atlantic waters, including Ireland and the UK.

The new stack is the third system in Wild Well’s WellCONTAINED program, which provides the most comprehensive package of subsea emergency response services in the industry, alongside adaptable equipment suitable for a variety of subsea scenarios. The 10K stack and its associated equipment package will be staged in a ready-to-deploy state beginning September 1, 2019 from Wild Well’s Montrose facility near Aberdeen and is subject to a separate membership agreement. The full subsea well intervention systems include subsea capping stacks, debris removal shears, hardware kits for the subsea application of dispersant and inhibition fluids and other ancillary equipment.

World Oil / [Read more](#)



AQUA-GUARD ANNOUNCES THE LAUNCH OF A NEW ARCHIMEDEAN SCREW PUMP LINE



June 24 - The NEW positive displacement screw pumps boast high performance with light and extremely viscous fluids. The pumps are ideal for oil skimming systems, emergency transfer, bunkering, bilge pumping, offloading and ballasting.

The pumps have been performance tested at Ohmsett (The National Oil Spill Response Research & Renewable Energy Test Facility, USA).

Features: Archimedes’ screw pump with sealing disc + Positive displacement + High capacities from 19.2m³/h to 35.6 m³/h (121 to 224 bbl/h) + High delivery pressures from 10 to 14 bar (145 to 203 psi) + Fully manufactured in stainless steel AISI-316 + Minimum manhole diameter from 300 mm to 350 mm (11.8 to 13.8 in) + 50 to 75mm (2 to 3 in) camlock discharge port + Solids handling from 15mm to 25mm (0.6 to 1.0 in)

Benefits: Can be run dry or with water (ideal for OSR training) + Compact and robust + Chemical and corrosion resistant + Easy disassembled, cleaned and maintained + Fluid viscosity - water to heavy oils + Does not emulsify oil

Currently, a higher capacity pump is in development which will be ready early 2020.

For more info click this link - <http://aquaguard.com/news/aqua-guard-announces-the-launch-of-a-new-archimedean-screw-pump>

PUBLICATIONS

NCCOS SCIENTISTS PUBLISH FLOW RATES FOR 14-YEAR-LONG OIL SPILL IN GULF OF MEXICO (VIDEO)

June 24 - Scientists from NOAA's National Centers for Coastal Ocean Science (NCCOS) have calculated a new estimate of flow rates of oil leaking at the site of the former Taylor Energy Mississippi Canyon 20 (MC20) drilling platform at between nine and 108 barrels (378 to 4,536 gallons) a day. This new estimate exceeds the previous estimate made by Taylor Energy Company of three to five gallons per day. Oil has been leaking from the site's wells since the platform was toppled during Hurricane Ivan in 2004, over 14 years ago.

The flow rate estimates were published today in a NOAA technical report.

The team used the latest acoustic technology and, in partnership with Florida State University, created a new device called a bubblometer to assess the flow rates. The researchers also characterized the composition of the oil and gas discharge, and conclusively established that active releases from multiple wells at the site, rather than from contaminated sediments, are the primary source of oil and gas entering the marine environment at the site. Coastal Science / [Read more and watch video](#)

CONTRACTS & TENDERS

OPEN TENDER NOTIFICATION SERVICE

This is a subscription service. [Have a look to see examples of open tenders.](#)

MESSAGES FROM EVENT ORGANISERS

Clean Gulf in New Orleans – October 28-31 - WOMEN IN EMERGENCY MANAGEMENT HAPPY HOUR - This event is meant to promote camaraderie, informal dialogue/conversation and networking in support of the growing community of women in preparedness, response, and recovery. During this reception, attendees can make new inspiring connections across a broad range of experienced women and reinforce existing relationships with key stakeholders in the energy industry, government, and consultancies. <http://2019.cleangulf.org/>

RESPONSE EVENTS DURING SEPTEMBER 2019 (UPDATED)

NEW ZEALAND: ECOFORUM CONFERENCE 2019

Auckland, September 3-5. Ecoforum is a broad-based environment conference and exhibition that focuses on contaminated land assessment, management and remediation. [More info](#)

UK: SPE OFFSHORE EUROPE CONFERENCE & EXHIBITION

Aberdeen, September 3-6. SPE Offshore Europe is recognised by offshore E&P professionals as Europe's leading E&P event. Attending will ensure you are up to date with the most significant technologies and can connect with a global network of 36,000+ attendees. [More info](#)

NIGERIA: NATIONAL WORKSHOP ON OIL SPILL LIABILITY AND COMPENSATION

Lagos, September 10-12. National Workshop on Liability & Compensation in case of oil spill. [More info](#)

GREECE: MEETING OF THE MAP FOCAL POINTS

Athens, September 10-13. Mediterranean Action Plan Focal Points Meeting. [More info](#)

UK: MARITIME SALVAGE & CASUALTY RESPONSE CONFERENCE

London, September 11-12. The two day conference will once again bring together senior executives and experts from salvage companies, technology providers, P&I Clubs, law firms and global regulators to discuss the latest challenges and developments making an impact on the industry. [More info](#)

UK: THE SPILL RESPONSE EXPO

Birmingham, September 11-12. The Spill Response Expo is one of seven specialist shows at the Contamination Expo Series that is designed to further the prevention, detection and management of chemical spills on water and on land. [More info](#)

UK & IRELAND: ISAA TRAINING DAYS AT CASTLE ARCHDALE

Two days of technical presentations and practical hands-on exercises on inland spill response. [More info](#)

RESPONSE EVENTS DURING SEPTEMBER 2019 (CONTINUED)

BAHREIN: GLOBAL HSE CONFERENCE 2019

Bahrein, September 30–October 1. HSE professional from all across the globe will converge their knowledge to lead the future of HSE practices. The event will witness thought leaders of the industry who will impart knowledge sessions on the sustainable business practices underlining the socio-economic excellence. [More info](#)

UPCOMING EVENTS - OCTOBER 2019 ONWARDS (UPDATED)

| COUNTRY | 2019 | TITLE OF EVENT | LOCATION |
|--|------------------|---|-------------------|
| For more information click on Title of Event | | | |
| UK | October 2-4 | ITAC Oil Spill Response Forum | Southampton |
| CROATIA | October 2-5 | Pollution Response Challenges in the Mediterranean Conference | Split |
| USA | October 7-10 | Elastec's Fall 2019 River Spill Workshop | Carmi, IL |
| NORWAY | October 14-18 | NOSCA Seminar 2019 | Frøya |
| UAE | October 15-17 | RECSO Envirospill Conference & Exhibition | Abu Dhabi |
| BAHREIN | October 20-21 | Int'l Oil Spill Response & Environmental Protection Congress & Exhibition | Manama |
| SINGAPORE | October 21-24 | International Chemical and Oil Pollution Conference and Exhibition | Singapore |
| UK | Oct. 28 – Nov. 1 | Meetings of the IOPC Funds Governing Bodies | London |
| USA | October 28-31 | Clean Gulf Conference and Exhibition | New Orleans, LA |
| SOUTH AFRICA | October 28-31 | 8th GI WACAF Regional Conference | Cape Town |
| CANADA | October 29-31 | Arctic Shipping Forum North America | Montreal |
| TUNISIA | Nov. 13-14 | Incident Management System Training Workshop | Tunis |
| FRANCE | November 21 | Cedre Technical Day | Brest |
| UAE | Dec. 8-10 | Middle East HSE and Sustainability Week | Dubai |
| COUNTRY | 2020 | TITLE OF EVENT | LOCATION |
| USA | May 11-14 | International Oil Spill Conference & Exhibition | New Orleans, LA |
| CANADA | June 2-4 | 43rd AMOP Technical Seminar on Environmental Contamination and Response. | Edmonton, Alberta |
| COUNTRY | 2021 | TITLE OF EVENT | LOCATION |
| NETHERLANDS | March 22-26 | Interspill Conference & Exhibition | Amsterdam |
| To request posting of an event of interest to the Spill Response Community please send details to the Editor | | | |

Note: If a URL link (underlined in blue ink) is not yet available, one will be given in a later issue of this Newsletter

LINKS FOR DOWNLOADING & READING OTHER PUBLICATIONS

| | | |
|---|--|------------------|
| Alga Chronicle | News from Australia on Contaminated Land Remediation | August 2019 |
| AMSA Update | Latest news from the Australian Maritime Safety Authority | Current issue |
| ATRAC Newsletter | News from the Adriatic Training and Research Centre | June 2019 |
| AUSMEPA Bulletin | News from the Australian Marine Environment Protection Assoc'n | Winter 2019 |
| BIMCO Bulletin | Marine and shipping-related news from BIMCO | June 2019 |
| Newsletter from George Holliday | News and commentary on HSE issues from George Holliday | On request email |
| Bow Wave | Sam Ignarski's Ezine on Marine & Transport Matters | Current issue |
| Cedre Newsletter | News from Cedre in Brittany, France | May 2019 |
| Clean Nigeria Associates Newsletter | News from CNA about Oil Spill Response in Nigeria | December 2018 |
| EMSA Newsletter | News from the European Maritime Safety Agency | August 2019 |
| GEF Newsletter | Monthly Newsletter from the Global Environment Facility | July 2019 |
| GISEA Quarterly Newsletter | News from Global Initiative for South-East Asia | Q 2 2019 |
| IMO News Magazine | News from the International Maritime Organization | Summer 2019 |
| IMO Publishing Newsletter | New and forthcoming IMO publications | June/July 2019 |
| JOIFF "The Catalyst" | Int'l Organisation for Industrial Hazard Management | July 2019 issue |
| Maritime Executive Magazine | Often contains articles of interest to the spill response community | Jan.-Feb. 2019 |
| MOIG Newsletter | News from the Mediterranean Oil Industry Group | April 2019 issue |
| Nautical Institute News | News from the Nautical Institute | March, 2019 |
| Navigate Response | Global crisis communications network for shipping & marine | June 2019 |
| NOAA OR&R | Weekly round-up of news from NOAA's Office of Response & Restoration | Latest issue |
| Oceanbuzz | Newsletter giving news on the Ocean Technology Industry | Current issue |
| OCIMF Newsletter | News from the Oil Companies International Marine Forum | July 2019 |

LINKS FOR DOWNLOADING & READING OTHER PUBLICATIONS (CONTINUED)

| | | |
|---|--|-----------------|
| OHMSETT Gazette | Oil Spill Response Research & Renewable Energy Test Facility Quarterly | Fall 2018 |
| OSPAR Newsletter | Protecting & Conserving the N.E. Atlantic and its resources | Spring 2019 |
| PEMSEA Newsletter | Healthy oceans, people and economies in the East Asian Seas | June, 2019 |
| Pollution Online Newsletter | News for pollution prevention & control professionals | April 3, 2019 |
| Safe Seas, Clean Seas | Quarterly Newsletter from Maritime New Zealand | July 2018 issue |
| Salvage World | Quarterly Newsletter of the International Salvage Union | Current issue |
| Sea Alarm Foundation Newsletter | Oiled wildlife Preparedness and Response news from Sea Alarm | Current issue |
| Technology Innovation News Survey | News from US EPA – Contaminated Site Decontamination | July 1-15, 2019 |
| USA EPA Tech Direct | Remediation of contaminated soil and groundwater | August 1, 2019 |

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

INCIDENT REPORTS (IN CHRONOLOGICAL ORDER)

USA: OREGON - TRAIN DERAILS NEAR MADRAS, ABOUT 4,000 GALLONS OF DIESEL SPILLS OUT

August 12 - An 80-car freight train struck two large boulders that fell onto the BNSF Railway tracks in a remote area about 20 miles north of Madras causing five locomotives and a rail car to derail, closing the line and bringing out emergency crews. Oregon DEQ said an estimated 4,000 gallons of diesel spilled from a punctured fuel tank near Trout Creek and the Bureau of Land Management's Trout Creek Campground as a result of the derailment. Trout Creek is a tributary of the Deschutes River, and crews put down absorbent boom so the spill didn't reach the creek. KATU / [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: NEW JERSEY - SUNKEN JEFFERSON BOAT SPILLING FUEL BRINGS HAZMAT PRESENCE TO LAKE HOPATCONG

August 13 - A sunken boat spilling fuel into Lake Hopatcong in Jefferson brought the Morris County hazardous materials team to the area Tuesday afternoon, authorities said. Daily Voice / [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

INDIA: SHIP AT CHILIKA TRIGGERS OIL SPILL CONCERN

August 18 - The Coast Guard has raised concern over possible spillage of oil from Tug JIN HWA 32, a cargo vessel that ran aground off the Chilika lake on August 9.

The Coast has apprised the State Government about the threat to the eco-sensitive coastal zone off the Chilika lake and the Odisha coast due to possible leakage from the Malaysian cargo ship, which contains 30,000 litres of diesel, 1,000 litres of lube oil and 200 litres of hydraulic oil. Daily Pioneer / [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

IRELAND: COUNCIL CONTINUES TO MONITOR RIVER SHANNON OIL SPILL

August 16 - Westmeath County Council is continuing to treat the River Shannon for an oil spill.

Crews treated all contaminated areas of the rivers Shannon and AI yesterday, but are still monitoring the area for an oil slick.

Wildlife has been significantly affected by the incident over the past week – but the Council says a containment boom is now in place on the River AI, and only small amounts of oil residue have been detected over the past two days. Midlands 103 – [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: INDIANA - SECTION OF INDIANA DUNES CLOSED FOLLOWING CYANIDE SPILL KILLING A LARGE NUMBER OF FISH



Photo: In this Thursday, Aug. 15, 2019, photo several dead fish float along the bank of Burns Ditch near the Portage Marina in Portage, Ind. Some beaches along northwestern Indiana's Lake Michigan shoreline are closed after authorities say a chemical spill in a tributary caused a fish kill. (John Luke/The Times via AP)

August 16 - Going in the water was not allowed Friday afternoon at the beach in Portage, Indiana. The problem was dangerous chemicals that spilled out into the Little Calumet River – leaving hundreds of fish dead as a direct result.

The National Parks Service shut down the Portage Lakefront and Riverwalk beach area and waters out to 300 feet. The area is part of the Indiana Dunes National Park. CBS News / [Read more](#) Related Reports in [Time](#), and [US News](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

SPAIN: 8,000 LITRES OF DIESEL SPILL INTO MALAGA PORT AS FERRY IS REFUELLED



August 17 - PORT authorities in Malaga had to put into operation an anti-pollution plan when 8,000 litres of diesel spilled into the Costa del Sol harbour while a ferry was being refuelled.

A failure, possibly with a badly closed valve, in the fuel tanks of the ferry Sicilia de Baleària caused the spillage from the ship which operates between Malaga and Melilla.

The incident was controlled by dawn yesterday (August 16), thanks to the deployment of anti-pollution barriers. In addition, sources stressed that it is diesel and not fuel oil, which would have been more harmful. The deployment of these measures made it possible to control the leak and prevent it from leaving the Heredia dock, the innermost of all the docks. EuroWeekly / [Read more](#)

USA: MISSISSIPPI - PIPELINE SPILL CONTAINED IN MISSISSIPPI DELTA BAYOU

August 16 - Cleanup crews are responding to an oil spill from a pipeline in Cox Bay, Louisiana, near Port Sulphur on the Mississippi River Delta.

Watchstanders from Coast Guard Sector New Orleans received a report from the Louisiana Oil Spill Coordinator's Office at about 0900 hours of an oil discharge in Cox Bay. The owner of the flowline, Time Energy, reports that the source of the leak has been secured. An incident management team from Coast Guard Sector New Orleans visited the site Thursday to begin coordinating the response.

Time has contracted OMI Environmental Solutions for a spill response, and the cleanup crews have deployed about 300 feet of spill boom around the affected area. The Maritime Executive / [Read more](#)

SOUTH AFRICA: DUSI OIL SPILL: CLEAN-UP OF RIVERS COULD TAKE 'YEARS'



August 18 - As a major KwaZulu-Natal river turned into a cauldron of dying fish this week, Willowton Oil, the company responsible for the pollution incident, has been called in to set up a disaster fund. The ecological disaster - one of the worst of its kind to have happened in the province - began on Tuesday when about 1600 cubic metres (1.6 million litres) of fatty oils and caustic soda poured out of the Pietermaritzburg factory into the Msundusi River, just below the N3. The toxic mix soon reached as far as Cato Ridge and the Umgeni River, which flows into Inanda Dam.

Caustic soda combined with fatty oils becomes soapy, making a river clean-up exceptionally difficult.

One of South Africa's leading water specialists, Dr Anthony Turton from the Centre for Environmental Management at the University of Free State, said if the pollution had spread all the way down to Inanda Dam, the clean-up could take several years. IOL / [Read more](#) [A follow-up report on August 19](#)

CANADA: 40,000 LITRES OF OIL SPILLED IN ALBERTA, IT'S DANGEROUSLY CLOSE TO EDMONTON'S WATER SUPPLY

August 19 - An Alberta pipeline belonging to Bonterra Energy Corporation ruptured on Thursday, Aug. 15. As a result, 40,000 litres of crude oil was dumped into an Albertan creek. The site, Washout Creek Natural Area, is located about 150 kilometres from Edmonton. The creek flows directly into the North Saskatchewan River, which is where the City of Edmonton gets their water supply.

Around 8 a.m. local time on the morning of the spill, Bonterra identified an imbalance and began to investigate, according to their press notice. Around 1 p.m. Bonterra noticed that one of their pipelines had burst, releasing an estimated 40,000 litres of oil into Washout Creek. They immediately launched their Emergency Response Plan to protect from contaminants, minimize impact, and notify all appropriate officials. According to Bonterra, over 1200 feet of boom vacuums have been installed along the creek to recover the spilled oil. In areas that can't be accessed by vehicles, helicopters are reportedly being deployed for recovery efforts. The energy corporation says cleanup and recovery process is expected to continue over the next three weeks. NarCity / [Read more](#)

FINLAND: OIL SPILL OFF THE HELSINKI COAST

August 19 - The fire department is investigating the cause of an apparent oil spill off the coast of Helsinki. The spill was discovered on Sunday evening and has covered the sea around Ullanlinna and Kaivopuisto areas. Efforts to locate the source of the spill and any cleanup operation were hampered by darkness but this morning rescue crews were back on scene at 08:00. Samples of the spill have been taken for analysis, but the Helsinki Rescue Service says this is nothing like a crude oil spill, and more like light fuel oil which has been spilled into the sea, appearing as a thin film on the surface of the water. A working theory is that one of the boats in the harbour is leaking fuel. News Now Finland / [Source report](#)

SPAIN: PHOTOS: FAST FERRY RUNS AGROUND AT PORT OF DENIA, SPAIN



Image courtesy Salvamento Maritimo

August 19 - On Friday night, the Spanish coast guard helped evacuate hundreds of passengers from the fast ferry Pinar del Rio just off the port of Denia, Spain.

The del Rio, which was arriving at Denia from Palma and Ibiza, was on her way to her berth at the port when she ran aground on the jetty. According to operator Balearia, she had 70 vehicles and 393 passengers on board. With assistance from the Salvamento Maritimo, the Guardia Civil, local police and a privately-operated tugboat, all passengers were safely evacuated without further incident.

A salvor is working to refloat the vessel, the firm said. No spill has been reported, but as a precautionary measure, the Salvamento Maritimo brought in a containment boom from Castellon and deployed it around the vessel at the owner's request.

The Maritime Executive / [Read more](#)

USA: LOUISIANA - MARSH GRASS NEAR PORT SULPHUR TO BE BURNED WEDNESDAY TO CLEAN UP TIME ENERGY OIL SPILL

August 20 - A black-stained patch of marsh grass in Cox Bay, just east of Port Sulphur in Plaquemines Parish, will be put to the torch Wednesday to remove about 1,000 gallons of crude oil spilled there last week when a Time Energy LLC oil well flow line sprang a leak, the U.S. Coast Guard announced Tuesday.

The in-situ burn is scheduled to begin at 8 a.m., weather permitting, and is expected to last until 4 p.m. The burn is tentatively scheduled for Thursday if weather conditions don't allow it Wednesday. The Times Picayune / [Read more](#)

USA: VIRGINIA - MERCURY REMEDIATION CONTINUES ON THE SOUTH RIVER

August 21 - Decades after mercury was dumped into the environment from the DuPont factory in Waynesboro, work continues to remove it from the banks of the South River. Mike Liberati is the principal project director for Corteva, which recently separated from Dow DuPont. Liberati said the mercury levels are the result of waste disposal methods used at the factory. Elevated mercury was discovered in fish tissue, which led to a consumption warning that's still in place today, decades after the pollution. WHSV / [Read more and watch video](#)

NORWAY: HIGH ARCTIC SALVAGE OPERATION FOR GROUNDED TRAWLER RESUMES

August 23 - After a long delay due to ice conditions, work to remove the grounded fishing vessel Northguider from a remote shore in Svalbard has resumed. A salvage crew from Smit Salvage has now returned and Smit will continue efforts to seal up damage and strengthen the hull for a refloat operation. The timeline for the removal depends upon the extent of damage to the hull, NCA said, and it is difficult to determine the severity until work progresses further. The Maritime Executive / [Read more](#)

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 and your acceptance of ISCO's Data Protection and Privacy Policy.
