



ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for-profit organization dedicated to raising worldwide preparedness & co-operation in response to oil and chemical spills, marine & freshwater pollution by plastics, promoting technical development and professional competency, & 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 & observer Status at the International Oil Pollution Compensation Fund

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INTERNATIONAL & REGIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION

UNEP AT THE UN GENERAL ASSEMBLY HIGHLIGHTS



September 15 - The state of the planet will be a key topic of discussion during the **78th Session of the United Nations General Assembly**, which gets underway in September 2023 with high-level events on the climate crisis, the Sustainable Development Goals and more. Tune in here for the latest developments.

THOUSANDS OF WORLD WAR II SHIPWRECKS LIE ON THE PACIFIC OCEAN FLOOR. BUT THEY CONTINUE TO POLLUTE THE SEA TODAY

September 9 - An estimated 3,800 ships were sunk during the conflict and remain on the Pacific Ocean floor, the bulk of them in Chuuk Lagoon in the Federated States of Micronesia (FSM) – sometimes referred to as the "world's biggest ship graveyard". Chuuk Lagoon was a key imperial Japanese base during the war, and American planes bombarded the location for three days straight, sinking dozens of ships in a short space of time.

So many Japanese and allied ships and airplanes were sunk in the stretch of water near Guadalcanal that it's now called Iron Bottom Sound. It has been almost 80

years since the end of the war, but its impacts are still being felt. ABC News / [Read more](#) [Thanks to John Wardrop, ISCO IE member]

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 More than 6,000 polluted sites fester across Amazonian countries Click on the link below –
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complimentary workshop with the International Group of P&I Clubs (International Group) for Spillcon participants. IOPC Funds / [Read more](#) [Photo courtesy of IOPC Funds]

CANADA: SHIP SOURCE OIL POLLUTION FUND - ANNUAL REPORT, FIVE-YEAR STRATEGIC PLAN REVIEW (2016-2021) AND OTHER NEWS

September 12 – Editor - Received via email. No link can be provided but email can be forwarded on request.

PORTUGAL: 600,000 GALLONS OF RED WINE SPILLED THROUGH PORTUGUESE TOWN

September 11 - A river of 600,000 gallons of red wine flowed through a small Portuguese town on Sunday. According to the New York Post, two Levira Distillery tanks carrying a considerable volume of alcohol spilled during transport through São Lourenço de Bairro, which is home to around 2,000 residents, as of 2021, per the National Institute of Statistics. A video shared on Twitter, now known as X, shows the river of red wine gushing down a steep hill through the streets of the small town located in the northern region of Portugal in the municipality of Anadia. People.com / [Read more](#)

SRI LANKA: FRENCH GOVERNMENT AIDS SRI LANKA IN SATELLITE TECHNOLOGY OIL SPILL MONITORING SYSTEM

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

HUNDREDS OF OIL SPILL SITES THREATEN AMAZON INDIGENOUS LANDS, PROTECTED AREAS

September 12 - An investigation by Mongabay Latam found that at least 109 spill sites overlap with 15 protected natural areas in Bolivia, Peru, Ecuador and Colombia. There are a further 561 environmental liabilities in areas belonging to 50 native communities.

More than 2,897 kilometers (1,800 miles) of oil pipelines cross 65 natural reserves and 140 Indigenous territories across these countries.

Contaminants close to water sources threaten both human and environmental health, as well as agricultural areas that communities depend on for their foods. Mongabay / [Read more](#)

NEWS FROM AROUND THE WORLD

AUSTRALIA – IOPC FUNDS AT SPILLCON 2023



September 15 - The IOPC Funds were delighted to participate in Spillcon, the international oil spill conference for the Asia-Pacific region, which took place from 11 – 15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia.

Prior to the formal opening of the event on 11 September 2023, IOPC Funds Director, Gaute Sivertsen, and Senior Claims Manager, Chiara Della Mea, ran a

NEWS FROM AROUND THE WORLD (CONTINUED)

September 12 - Sri Lanka's Marine Environment Protection Authority (MEPA) signed a Memorandum of Understanding with French satellite group Collecte Localisation Satellites (CLS) today (12) to deploy satellites to detect oil spills into the sea around Sri Lanka. The satellite based oil spill monitoring system is a pilot project by CLS, and will be funded by 600,000 euro from the French government. Economy Next / [Read more](#)

UK: MORE THAN HALF OF OIL ACCIDENTALLY SPILLED IN UK WATERS REACHED MARINE PROTECTED AREAS, ANALYSIS FINDS

September 12 - More than half of the oil accidentally spilled by offshore oil and gas operations in UK waters over the past decade has ended up in marine protected areas (MPAs) meant to protect rare and threatened habitats and species, an Unearthed investigation has found. Unearthed / [Read more](#)

UK: DALGETY BAY REMEDIATION WORK COMPLETED

September 15 - Work to remove radioactive particles from the foreshore of Dalgety Bay, Fife and to prevent future contamination, has now been completed, the Scottish Environment Protection Agency (SEPA) has confirmed.

Briefing local stakeholders today, we have signalled that we are satisfied that the remediation work carried out by the Defence Infrastructure Organisation (DIO) and its contractor Balfour Beatty, alongside future monitoring plans and agreed maintenance of rock armour by Fife Council, means the public will be able to enjoy access again for the first time since 2011
Scottish Environment Protection Agency / Editor: No link available – News received via email but can be forwarded on request

USA: MICHIGAN - ENVIRONMENTAL REMEDIATION PROJECTS

September 12 - Several Environmental Remediation Projects are underway in Michigan. These projects range from cleaning up legacy pollution sites to promoting the economic vitality of surrounding communities. Many of these projects include plugging orphaned wells, cleaning contaminated soil and redeveloping underutilized properties. Additionally, with the Brownfield Job Training: Green Door Initiative the state of Michigan creates new economic opportunities through which residents of affected communities can be recruited for jobs that help in facilitating safe hazardous and waste management in the future, thus creating a more sustainable future for these communities. Michigan.gov / [Read more](#)

USA: ALASKA - COAST GUARD, NAVY CONDUCT POLLUTION RESPONSE EXERCISES



September 13 - The U.S. Coast Guard conducted joint pollution response exercises with the U.S. Navy Supervisor of Salvage and Diving near Seward, Aug. 30.

Involved in the exercise evolutions were: Coast Guard Cutter Cypress (WLB 210), Navy Supervisor of Salvage and Diving, Coast Guard Sector Anchorage and Coast Guard District 17 Response Advisory Team

Together, these assets conducted coordinated pollution response evolutions including equipment deployments, tactics and communications. US Coast Guard / [Read more](#) [Photo courtesy of US Coast Guard]

USA: NEW YORK & NEW JERSEY - EAGLES, BEARS AND SNAPPING TURTLES: WILDLIFE RETURNS TO ONE OF US' MOST FAMOUS RIVERS

September 14 - The return of wildlife to the Hudson, once one of the country's most-polluted rivers, is seen in many quarters as a conservation success story. It comes after a decades-long effort to clean up the waterway and, for many, it is a promising sign for the future.

"Rivers are the lifeblood of human civilization, but in too many places they – and the animals and plants that call them home – are in peril," said Leticia Carvalho, the head of the Marine and Freshwater Branch at UNEP. "The improvement in the health of the Hudson River shows us that it is possible to revive inland waterways – and make them teem with life once again. What is good for the health of our water bodies is also good for human health." UNEP / [Read more](#)

USA: EPA - SECTION 401 OF THE CLEAN WATER ACT

The Clean Water Act (CWA) gives states and authorized tribes the authority to grant, deny, or waive certification of proposed federal licenses or permits that may discharge into waters of the United States. EPA / [Read more](#)



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27 October 2023

NEWS FROM AROUND THE WORLD (CONTINUED)

UZBEKISTAN: CLEAN-UP WORK BEGINS AT UZBEK LEGACY URANIUM SITES

September 13 - Remediation work at legacy uranium mining sites in Uzbekistan is under way, bolstered by a EUR9 million (USD11 million) grant from the Environmental Remediation Account for Central Asia (ERA)- set up on the initiative of the European Union and managed by the European Bank for Reconstruction and Development (EBRD). World Nuclear News / [Read more](#)

NEWS FROM ISCO MEMBERS – AN ISCO MEMBERSHIP BENEFIT

Corporate Members of ISCO can benefit by submitting news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. This is a free facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 60 countries, it’s a cost-effective way to promote your company. If you have some news you would like to share with readers of the ISCO Newsletter, send it to John.McMurtrie@spillcontrol.org Members who would like to place a regular advertisement in the ISCO Newsletter can also benefit from preferential discounted rates. For more info please contact Mike Watson at mike@mwadigital.com He will be happy to help you.

AQUA-GUARD EXHIBITING AT THE XIX SLOM CONFERENCE IN RIO DE JANEIRO

Explore Aqua-Guard Spill Response Inc.'s cutting-edge oil spill response solutions at the XIX SLOM Conference & Trade Show in Rio de Janeiro, taking place from September 27th to 29th, 2023, at the Windsor Barra Hotel. <http://aquaguard.com>

XIX SLOM Conference "Terminals with a vision of the Future". "Sociedad Latinoamericana de Operadores de Terminales Maritimo Petroleros y Monoboyas". The Society of Petroleum Operators of Marine Terminals and Monobuoys of LatinAmerica.

<https://www.jornadaoperadores.slom.co/en>

LAMOR’S SOLUTION FOR THE CLEANUP OF OIL-CONTAMINATION IN KUWAIT’S EXTREME CONDITIONS PROVEN HIGHLY SUCCESSFUL

Global environmental solutions provider Lamor has made a breakthrough in its projects in Kuwait to clean up oil-contaminated soil. The solution developed by company’s experts for Kuwaiti conditions successfully cleans the polluted soil even better than anticipated. Lamor’s global experience in soil remediation projects gave a strong starting point to design the optimal solution for the project. Lamor / [Read more](#)

NURDLES - PREVENTION, CLEAN-UP TECHNOLOGY AND ONGOING R&D WORK



The ISCO Executive Committee is looking into how our organisation can assist by co-operating with others in promulgating better prevention and response capabilities that can be adopted on a worldwide basis.

Readers of the ISCO Newsletter are invited to contribute information that can be shared within our community and help to improve our capability to counter this pollution in more effective ways.

ISCO Committee Member, Dr Larissa Montas, is a contributor to this section in the ISCO Newsletter.

Dr. Larissa Montas attended the Nurdles/Plastic Pellets Response workshop held on September 6 & 7, 2023 at the NOAA Center for Weather & Climate Prediction (NCWCP), in College Park, Maryland. The workshop was a success and the attendees were very enthusiastic about the next steps following the workshop outcomes. A report has been prepared and has been sent it over to the workshop organizers for approval of the content. It will be published here ASAP.

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS

A COLUMN CREATED BY DR. MERV FINGAS, MEMBER OF ISCO COUNCIL FOR CANADA



This is part of a weekly column which provides the references and abstracts of new peer-reviewed scientific publications on oil spills. These references are selected on the basis of those papers that provide new insights into the fate, effects and control of oil spills. Readers may choose to obtain the full publications and to do so, one of three methods is suggested; contact your library, search the internet with the DOI (digital object identifier) provided, or search the internet for the exact title. These are given in the order of likely success in obtaining the article. Merv Fingas, ISCO Colleague.

226. Assessing the risk of oil spill impacts and potential biodiversity loss for coastal marine environment at the turn of the COVID-19 pandemic event

Cucco A., Rindi L., Benedetti-Cecchi L., Quattrocchi G., Ribotti A., Ravaglioli C., Cecchi E., Perna M., Brandini C. (2023) *Science of the Total Environment*, 894, art. no. 164972, DOI: 10.1016/j.scitotenv.2023.164972

ABSTRACT: The Tuscan Archipelago, with its great environmental and economic importance, is one of the highest oil spill density areas in the Western Mediterranean. In this study, an interdisciplinary approach, based on numerical applications and experimental methods, was implemented to quantify the risk of oil spill impact along the rocky shores of this archipelago in relation to the maritime activities. The risk, defined as a combination of the hazard and the damage, was quantified for the biennial 2019–2020 in order to account for the effects generated by the COVID-19 pandemic restrictions on the local maritime traffic. A high-resolution oceanographic and particle tracking model was applied to simulate the trajectories of possible oil spill events and to quantify the hazard of impacts on the coast of numerical particles, daily seeded in correspondence of those marine sectors that are characterised by relevant traffic of vessels. The damage, expressed as the product of exposure and vulnerability, was estimated following an extensive sampling approach aimed at quantifying the ecological status of the rocky shores in four selected islands of the Tuscan Archipelago. Results revealed and quantified the direct relationship between the temporary reduction of the maritime traffic due to the pandemic restrictions, and the probability of suffering damage from oil spill impact along the archipelago's rocky shores, which was highly context-dependent.

227. Development of rapid and effective oil-spill response system integrated with oil collection, recovery and storage devices for small oil spills at initial stage: From lab-scale study to field-scale test

Piao L., Park C.J., Kim S., Park K., Lee Y., Kim H.-Y., Moon M.-W., Park H. (2023) *Journal of Environmental Management*, 345, art. no. 118833, DOI: 10.1016/j.jenvman.2023.118833

ABSTRACT: In the present study, through the laboratory-to-field scale experiments and trials, we report the development and evaluation of an integrated oil-spill response system capable of oil collection, recovery (separation), and storage, for a timely and effective response to the initial stage of oil-spill accidents. With the laboratory-scale experiments, first, we evaluate that the water-surface waves tend to abate the oil recovery rate below 80% (it is above 95% for the optimized configuration without the waves), which is overcome by installing the hydrophilic (and oleophobic) porous structures at the inlet and/or near the water outlet of the separator. In the follow-up meso-scale towing tank tests with a scaled-up prototype, (i) we optimize the maneuverability of the assembled system depending on the speed and existence of waves, and (ii) evaluate the oil recovery performance (more than 80% recovery for the olive oil and Bunker A fuel oil). Although more thorough investigations and improvements are needed, a recovery rate of over 50% can be achieved for the newly enforced marine fuel oil (low sulfur fuel oil, LSFO) that was not targeted at the time of development. Finally, we perform a series of field tests with a full-scale system, to evaluate the rapid deployment and operational stability in the real marine environment. The overall floating balance and coordination of each functional part are sustained to be stable during the straight and rotary maneuvers up to the speed of 5 knots. Also, the collection of the floating debris (mimicking the spilled oil) is demonstrated in the field test. The present system is now being tested by the Korea Coast Guard and we believe that it will be very powerful to prevent the environmental damage due to the oil spills.

228. Integrated assessment of biological responses to pollution in wild mussels (*Mytilus edulis*) from subarctic and arctic areas in the Norwegian sea

Benito D., Guls H.D., Halldórsson H.P., Ciesielski T.M., Izagirre U., Lekube X., Etxebarria N., Marigómez I., Zaldibar B., Soto M. (2023) *Environmental Pollution*, 336, art. no. 122454, DOI: 10.1016/j.envpol.2023.122454

ABSTRACT: North Atlantic and Arctic Oceans contain large amount of undiscovered oil and gas reserves. Therefore threat of oil spills and its hazardous ecological consequences are of great importance to the marine environment. Although mussels (*Mytilus* sp.) respond clearly to contaminants, biomarkers have shown variability linked to biological and environmental changes. In order to help avoiding misinterpretation of biological responses the aim of this study was to reveal the effect of natural variability in the responsiveness to pollution of a battery of cell and tissue-level biomarkers in mussels. Mussels were collected in relatively non-impacted and potentially impacted sites at ports and the vicinity of a waste water treatment plant in Trondheim and Tromsø in autumn of 2016. Although the battery of biomarkers used herein proved to be useful to discriminate impacted and non-impacted mussel populations, some confounding factors altering the biological responses were identified. Geographical/latitudinal factors seemed to be critical regarding the reproductive cycle, reserve material storage and the prevalence of parasites such as *Gymnophallus* cf. *Bursicola* trematodes. Mussels from the reference site in Tromsø displayed general stress responses at different

levels, which could be influenced by the pathogenic effect of the *Gymnophallus* cf. *Bursicola* trematode and by a more advanced gametogenic developmental stage compared to the mussels from Trondheim, which could lead to misinterpretation of the reasons behind the measured stress levels in those mussels. Despite these confounding effects, the use of integrative tools such as IBR index helped to discriminate mussel populations from chemically impacted and non-impacted sites. Overall, this work serves as an anchor point both as a reference of the baseline level values of the analyzed endpoints in the studied geographical area and time of the year, and as an indication of the potential extent of the environmental confounding factors in monitoring programs causing stress on the analyzed mussel populations.

229. Risk of longer-term neurological conditions in the Deepwater Horizon Oil Spill Coast Guard Cohort Study – Five years of follow-up

Denic-Roberts H., Engel L.S., Buchanich J.M., Miller R.G., Talbott E.O., Thomas D.L., Cook G.A., Costacou T., Rusiecki J.A. (2023) *Environmental Health: A Global Access Science Source*, 22 (1), art. no. 12, DOI: 10.1186/s12940-022-00941-0

ABSTRACT: Background: Long-term neurological health risks associated with oil spill cleanup exposures are largely unknown. We aimed to investigate risks of longer-term neurological conditions among U.S. Coast Guard (USCG) responders to the 2010 Deepwater Horizon (DWH) oil spill. Methods: We used data from active duty members of the DWH Oil Spill Coast Guard Cohort Study (N=45224). Self-reported oil spill exposures were ascertained from post-deployment surveys. Incident neurological outcomes were classified using International Classification of Diseases, 9th Revision, codes from military health encounter records up to 5.5 years post-DWH. We used Cox Proportional Hazards regression to calculate adjusted hazard ratios (aHR) and 95% confidence intervals (CI) for various incident neurological diagnoses (2010–2015). Oil spill responder (n=5964) vs. non-responder (n= 39260) comparisons were adjusted for age, sex, and race, while within-responder comparisons were additionally adjusted for smoking. Results: Compared to those not responding to the spill, spill responders had reduced risks for headache (aHR=0.84, 95% CI: 0.74-0.96), syncope and collapse (aHR=0.74, 95% CI: 0.56-0.97), and disturbance of skin sensation (aHR=0.81, 95% CI: 0.68-0.96). Responders reporting ever (n=1068) vs. never (n=2424) crude oil inhalation exposure were at increased risk for several individual and grouped outcomes related to headaches and migraines (aHR range: 1.39-1.83). Crude oil inhalation exposure was also associated with elevated risks for an inflammatory nerve condition, mononeuritis of upper limb and mononeuritis multiplex (aHR=1.71, 95% CI: 1.04-2.83), and tinnitus (aHR=1.91, 95% CI: 1.23-2.96), a condition defined by ringing in one or both ears. Risk estimates for those neurological conditions were higher in magnitude among responders reporting exposure to both crude oil and oil dispersants than among those reporting crude oil only. Conclusion: In this large study of active duty USCG responders to the DWH disaster, self-reported spill cleanup exposures were associated with elevated risks for longer-term neurological conditions.

230. Photochemical mobilization of dissolved hydrocarbon oxidation products from petroleum contaminated soil into a shallow aquifer activate human nuclear receptors

Zito P., Bekins B.A., Martinović-Weigelt D., Harsha M.L., Humpal K.E., Trost J., Cozzarelli I., Mazzoleni L.R., Schum S.K., Podgorski D.C. (2023) *Journal of Hazardous Materials*, 459, art. no. 132312, DOI: 10.1016/j.jhazmat.2023.132312

ABSTRACT: Elevated non-volatile dissolved organic carbon (NVDOC) concentrations in groundwater (GW) monitoring wells under oil-contaminated hydrophobic soils originating from a pipeline rupture at the National Crude Oil Spill & Natural Attenuation Research Site near Bemidji, MN are documented. We hypothesized the elevated NVDOC is comprised of water-soluble photooxidation products transported from the surface to the aquifer. We use field and laboratory samples in combination with complementary analytical methods to test this hypothesis and determine the biological response to these products. Observations from optical spectroscopy and ultrahigh-resolution mass spectrometry reveal a significant correlation between the chemical composition of NVDOC leached from photochemically weathered soils and GW monitoring wells with high NVDOC concentrations measured in the aquifer beneath the contaminated soil. Conversely, the chemical composition from the uncontaminated soil photoleachate matches the NVDOC observed in the uncontaminated wells. Contaminated GW and photodissolution leachates from contaminated soil activated biological targets indicative of xenobiotic metabolism and exhibited potential for adverse effects. Newly formed hydrocarbon oxidation products (HOPs) from fresh oil could be distinguished from those downgradient. This study illustrates another pathway for dissolved HOPs to infiltrate GW and potentially affect human health and the environment.

231. The Impact of Highly Weathered Oil from the Most Extensive Oil Spill in Tropical Oceans (Brazil) on the Microbiome of the Coral *Mussismilia harttii*

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

Pereira P.H.F., Fernandes L., Jesus H.E., Costa P.G., Lacerda C.H.F., Mies M., Bianchini A., Santos H.F.
(2023) *Microorganisms*, 11 (8), art. no. 1935,
DOI: 10.3390/microorganisms11081935

ABSTRACT: In 2019, the largest oil spill ever recorded in tropical oceans in terms of extent occurred in Brazil. The oil from the spill was collected directly from the environment and used in an exposure experiment with the endangered reef-building coral *Mussismilia harttii*. The treatments of the experiment were control (without oil), 1% oil, 2.5% oil, and direct contact of coral with oil. The most abundant hydrocarbon in the seawater of the experiment was phenanthrene, which is toxic to corals. However, overall, the concentration of PAHs was not very high. The analysis of the maximum photosynthetic capacity of Symbiodiniaceae dinoflagellates showed a small impact of oil on corals, mainly on the contact treatment. However, coral microbiomes were affected in all oil treatments, with the contact treatment showing the most pronounced impact. A greater number and abundance of stress-indicating and potentially pathogenic bacteria were found in all oil treatments. Finally, this highly weathered oil that had lain in the ocean for a long time was carrying potentially coral-pathogenic bacteria within the Vibrionaceae family and was able to transmit some of these bacteria to corals. Bacteria within Vibrionaceae are the main causes of disease in different species of corals and other marine organisms.

232. The Influence of a Key Indicator k_v on the Diffusion Range of Underwater Oil Spill

Ji H., Wang Y., Wang T., Yang K., Xing Z.
(2023) *Processes*, 11 (8), art. no. 2332,
DOI: 10.3390/pr11082332

ABSTRACT: As oil spills cause harm to the survival and environment of the ocean, the objective of the present paper is to study the oil migration range using the key indicator k_v , which is defined as the ratio of oil spill speed to ocean current speed. The correctness of diffusion models created and estimated for subsea oil spills can be verified by experiments. We also considered the effect of key indicators on the horizontal and vertical dispersion ranges of oil spills. The study's findings show that, under various k_v settings, the horizontal and vertical spreading heights of oil spills both increase as k_v rises. When k_v is equal, the leakage velocity and water flow velocity increase synchronously, and over time, the horizontal distance and vertical diffusion height of the oil spill gradually increase. In the early stages of an oil spill, when $k_v = 50, 100, \text{ or } 150$, the vertical spreading velocity will rapidly decrease. The vertical spreading speed of spilled oil increases as k_v rises when the water flow rate remains constant. The horizontal migration distance grows as k_v decreases when the leakage rate is constant. Fitting curves for the vertical rise height and horizontal spreading distance for the same and various k_v settings were also obtained in order to anticipate the migration mode of oil spills. This is critical for dealing with environment damage caused by maritime oil spills, as well as emergency responses.

CONTRIBUTED ARTICLE

WHAT DOES THE FUTURE OF OILED WILDLIFE RESPONSE LOOK LIKE?

[Editor: A message from Saskia Sessions of ISCO Industry Partner, SpillAlarm – “We have just published an article that it would be fantastic if you could please include in your next newsletter! The article (reproduced below) is at <https://revolve.media/opinion/what-does-the-future-of-oiled-wildlife-response-look-like>]

In this new Editorial, Vanessa Ryan, the Chair of EUROWA, takes a look back at the Bow Jubail incident and outlines her views for the future. Although the number of major oil spills in Europe is in decline, they still pose a serious threat”.

From successful response after Bow Jubail incident to the present unpreparedness, Europe's wildlife readiness falters.

In the summer of 2018, The Netherlands experienced an overwhelming incident when the Bow Jubail tanker ship collided with a jetty near the port of Rotterdam. Over 500 swans became oiled in the harbour within a few hours, garnering massive media and public interest. Luckily, the authorities activated their wildlife response plan. Due to a swift professional response, over 97% of the swans taken into care survived. Why do authorities need to get prepared?

Five years later, where do things stand in Europe? Are the authorities prepared to deal with a similar incident? Unfortunately for most, they are not. An often passive approach to wildlife preparedness risks a chaotic response in the event of an incident. And don't be mistaken, incidents do happen.

Although the number of major oil spills in Europe is in decline, they still pose a serious threat. Oil represents [almost 40% of the world's energy supply](#) and much of that is still transported by shipping. Cargo ships also run predominantly on heavy fuel oil and are responsible for the transport of [over 80% of all global trade](#).



Why do authorities need to get prepared? From oiled seabirds, and threatened seal colonies to oiled beaches with turtle nests, a wildlife emergency impacts the public. There are often strong emotional reactions to images of animals covered in oil, which spread like wildfire on social media. It is highly likely that the public will demand a professional response to save as much of the wildlife as possible. However, these life-saving efforts cannot be professional, efficient, or fully effective if they are improvised.

A wildlife response plan is essential and must engage all relevant stakeholders and crucially, it must be kept alive over time. A plan on the shelf is only as good as the energy that is spent regularly to train, exercise and implement it to ensure the response can roll out effectively. Authorities must review their plans every few years and ensure that all relevant stakeholders, from NGOs to scientists and industry, are aware of their roles and ready to perform them. In an incident, they need to be able to function smoothly together.

On the anniversary of the [Bow Jubail incident](#), the European Oiled Wildlife Assistance (EUROWA) network released a [Proposal](#) for the future of oiled wildlife in Europe. The Proposal targets national, regional and local authorities, but also the different European authorities and Regional Seas Agreements who each have a role in getting Europe better prepared for an oiled wildlife incident.



The time to prepare is now - The good news is it is never too late to start getting prepared. The Proposal shows authorities how to start working on their wildlife response plans. It provides a template that can be used by national governments to develop an integrated wildlife emergency response plan. The Proposal also emphasises that this plan must be accompanied by a wildlife preparedness programme.

CONTRIBUTED ARTICLE (CONTINUED)

As part of the programme, important steps are to commit long-term funding, integrate wildlife response into the overall oil spill response plans, and pre-identify sensitive areas for wildlife.

Training and exercising for oiled wildlife response is fundamental. Just a few months before the Bow Jubail incident, the [Dutch Directorate General for Public Works and Water Management](#) (Rijkswaterstaat, in Dutch) did a full practise run of setting up a temporary wildlife rehabilitation centre. This undoubtedly contributed to the quick response and set-up of a similar facility within days of the incident.

Fail to prepare, prepare to fail - If unprepared authorities are suddenly faced with an oiled wildlife incident, their reputation will be on the line. The Bow Jubail incident led to hundreds of oiled swans, but other incidents have led to thousands of oiled seabirds coming ashore such as with the [Tricolor incident](#).

In this case, a container ship sank in a matter of minutes, in the Pas-de-Calais, north-west of Dunkirk. Even though a relatively small amount of oil was spilt – 170 tonnes of heavy fuel oil – over 4,600 were admitted alive for treatment. These high numbers occurred in a mere 2 and a half weeks. The response efforts were completely overwhelmed and unprepared to deal with the scenario. Around 50% of the birds admitted for treatment died. The risk of a similar incident is real.

This dire scenario serves as an unwavering cautionary tale – a vivid illustration of the very real risk that looms. It is now imperative for authorities to not only acknowledge these perils but to also meticulously prepare for the worst. The integrity of their reputation hangs in the balance, hinging upon their ability to rise to the challenge, lest history repeats itself.

SCIENCE & TECHNOLOGY (

If you are interested in new technology you will find it useful to visit Technology Innovation News Survey at <https://clu-in.org/products/tins/> and Tech Direct at <https://clu-in.org/techdirect/archive/>

MYCO-REMEDICATION OF PLASTIC POLLUTION: CURRENT KNOWLEDGE AND FUTURE PROSPECTS

To date, enumerable fungi have been reported to participate in the biodegradation of several notorious plastic materials following their isolation from soil of plastic-dumping sites, marine water, waste of mulch films, landfills, plant parts and gut of wax moth. The general mechanism begins with formation of hydrophobin and biofilm proceeding to secretion of specific plastic degrading enzymes (peroxidase, hydrolase, protease and urease), penetration of three dimensional substrates and mineralization of plastic polymers into harmless products. As a result, several synthetic polymers including polyethylene, polystyrene, polypropylene, polyvinyl chloride, polyurethane and/or bio-degradable plastics have been validated to deteriorate within months through the action of a wide variety of fungal strains predominantly Ascomycota (*Alternaria*, *Aspergillus*, *Cladosporium*, *Fusarium*, *Penicillium* spp.) Pubmed / [Read more](#)

USING GRAPHENE IN WATER SENSORS TO ENHANCE POLLUTION DETECTION

Recently, investigators guided by Prof. Gaofeng Zeng at the [Chinese Academy of Sciences'](#) Shanghai Advanced

Research Institute (SARI), in cooperation with Prof. Guosheng Shi at Shanghai University, created graphdiyne composite membranes and obtained nearly complete salt rejections and ultrahigh water flux in seawater desalination. The findings were published in *Nature Water* on September 4th, 2023. AzoNano / [Read more](#)

A NOVEL APPROACH FOR REMOVING MICROPLASTICS FROM WATER

A new study led by Texas A&M AgriLife Research has identified what may be a novel biological approach for removing extremely small and potentially dangerous plastic particles from water. The study, called "Microplastics removal in the aquatic environment via fungal pelletization," was headed by Huaimin Wang, Ph.D., a post-doctoral scientist in the Texas A&M College of Agriculture and Life Sciences Department of Plant Pathology and Microbiology. Collaborators included Susie Dai, Ph.D., an associate professor in the department, and a team of researchers. Agrilife Today / [Read more](#)

OXIDATION APPROACH TO DESTROYING PFAS DEMONSTRATED AT US FACILITY

General Atomics Electromagnetic Systems (GA-EMS) conducted live demonstrations of its industrial Supercritical Water Oxidation (iSCWO) system for destroying PFAS chemicals before a delegation of government, remediation, and waste management company representatives on 29 August.

It appeared to demonstrate the successful destruction of PFAS using an Aqueous Film Forming Foam (AFFF) waste feed in a series of back-to-back demonstrations of GA-EMS' iSCWO system at the company's dedicated, full-scale system test facility located in San Diego. A variety of oxidation and other technologies [are currently being explored](#) in relation to the disposal of PFAS in substrates such as landfill leachate. Envirotech Magazine / [Read more](#)

ANNOUNCEMENT



We are pleased to announce that the International Maritime Organization (IMO) and United Nations Environment Programme (UNEP), with support from the Government of Norway, are jointly hosting the third IMO-UNEP-Norway Innovation Forum on Thursday, 28 September 2023.

To learn more about this event click [here](#) to visit the Innovation Forum Website

TRAINING COURSES

Training Course Providers – Please check entries below and advise editor on any necessary updates

USEFUL LINKS

- INTERNATIONAL – IMO E-LEARNING PLATFORM [e-learning platform](#)
- AUSTRALIA – AMOSC - <https://amosc.com.au/training/>
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- CHINA - <http://www.sioetc.com>
- EUROPE – <https://www.emsa.europa.eu/newsroom/latest-news/item/3609-emsa-training-catalogue-2019.html>
- FRANCE - CEDRE - https://wwz.cedre.fr/en/content/download/10912/file/CalendrierFormation2023_EN.pdf
- UK & WORLDWIDE – OIL SPILL RESPONSE LTD. - <https://www.oilspillresponse.com/training/courses/>
- UK & WORLDWIDE – BRIGGS ENVIRONMENTAL SERVICES LTD. - <https://www.briggsmarine.com/services/training/>
- UK – NCEC HAZMAT ACADEMY – [More info](#)
- USA – TEXAS A&M UNIVERSITY – NATIONAL SPILL CONTROL SCHOOL <https://www.tamucc.edu/research/nscs/>
- USA – MPC, DETROIT - <https://marinepollutioncontrol.com/services/training-and-compliance>
- USA – ALLIANCE OF HAZARDOUS MATERIALS PROFESSIONALS - https://www.ahmpnet.org/events/event_list.asp
- USA - Elastec Fall Workshop, New Harmony, Indiana, 3-5 October 2023. [More Info](#)

Contaminated Sites Health & Safety Refresher (8-Hour Hazwoper) – From EcoNext – [More info](#)

Members who would like to be listed here, please contact your editor – john.mcmurtrie@spillcontrol.org

UPCOMING EVENTS

TO VIEW UPCOMING EVENTS CLICK ON [HTTPS://SPILLCONTROL.ORG/UPCOMING-EVENTS/](https://spillcontrol.org/upcoming-events/)

To see ALL of the posted events you will need to click on “LOAD MORE” at the foot of each opened “upcoming events” page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event organisers before finalising your attendance plans. Please advise the Editor if any of the entries require correction or updating. If you are holding an event you would like to be featured here, please send details to John.mcmurtrie@spillcontrol.org

The listings below give only very basic details – To get access to all information visit <https://spillcontrol.org/upcoming-events/>

SEPTEMBER 2023

- WEBIBAR – CEDRE – “Projet CleanAtlantic”, 18th September (English language)
- UK – International Conference on Environmental Pollution & Remediation, 19-20 September, NEC Birmingham
- BAHREIN – OSRL – “Middle-East Member Forum” 25th September, Bahrein
- WEBINAR from UK & Ireland Spill Association – “Inland Spill Equipment Selection for Spill Responders”, 27th September, 1500 to 1630 BST USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023
- WEBINAR from UK & Ireland Spill Association – “Sustainability in Spill Response, Webinar 4”, 20th September 2023, 1500 – 1630 BST

OCTOBER 2023 & ONWARDS

- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Environmental Effects of Oil in the Sea”, Webinar 21, 3rd October, 2023

UPCOMING EVENTS (CONTINUED)

- MALAYSIA – OSRL – “Subsea Forum in Malaysia”, 4th October, KL
- WEBINAR – OSRL – “Risk Assessment and Contingency Planning” 10th October, 1400-1500 BST
- CANADA – Remediation Technologies Symposium (REMTECH) 2023, Fairmont Banff Springs, 11-13 October 2023
- THAILAND – Economist – “Global Plastics Summit”, Bangkok, 11-12 October 2023
- WEBINAR from UK & Ireland Spill Association – “Implications of the lessons learned from the Wakashio Incident”, 18th October 2023, 1500-1630 BST
- UK – ITAC Annual Meeting, 24th-26th October, National Oceanography Centre, Southampton
- CANADA – Econext 2023 Conference, St. Johns, NL, 26th October 2023
- BRAZIL – International Seminar – ISCO & Ocean Pact Brazil “Lessons Learned for Brazil & Latin America, Preparedness, Response & Crisis Management, Case Studies”, Rio de Janeiro, 27th October 2023
- UK – UK & Ireland Spill Association Conference – Annual Conference, Dinner & Awards, 1-2 November, Nottingham
- ITALY – ECOMONDO Exhibition & Conference, Rimini, 7-12 November 2023
- UK – IOPC Funds – November 2023 Meeting of the Governing Bodies, 7th to 10th November. IMO HQ London
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Human Health Effects of Oil in the Sea”, Webinar 22, 7th November 2023
- USA – Clean Gulf Conference & Exhibition, “Prepare, Respond and Recover”, San Antonio, TX, 7-9 November 2023
- INDIA – SPILLTECH Conference & Exhibition, 8th to 9th November 2023, New Delhi
- WEBINAR – OSRL – “Equipment and Resources for Effective Response”, 14th November, 1400-1500 GMT
- WEBINAR from UK & Ireland Spill Association – “Early lessons to be learned from the Poole Harbour incident”, 15th November 2023, 1500-1630 GMT
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Round Table Discussion to provide Summary and Recommendations”, Webinar 23, 5th December 2023
- UK – Seatrade Maritime Salvage & Wreck Conference, 6-7 December 2023
- UK – Panel Discussion at Salvage & Wreck Conference – “Effective Casualty Management – A Joint Session with Maritime Authorities and Industry”, Wednesday 6th December, 1200-1245 GMT
- WEBINAR – OSRL – “Training, Exercises and Continuous Improvement” 12th December, 1400-1500 GMT

SOME OTHER INFO - Recordings of past ExxonMobil OSR Knowledge Transfer Webinar Recordings – [Access and Download](#) UK & Ireland Spill Association Alternative Marine Fuels And Their Implication For Spill Response Webinar is [now available to watch on YouTube](#).

FINAL PROGRAMME FOR RIO SEMINAR ON 27th OCTOBER 2023



PROGRAM

Seminar



Maritime Pollution and 21st Century Oil Spills

Lessons Learned for Brazil & Latin America

Preparedness, Response and Crisis Management:

Cases Studies

The Volcano, Tsunami and the Mare Doricum Tanker, Peru 2022

VLSFO, Covid 19 and the Bulk Carrier Wakashio, Mauritius 2020

VLSFO, Scuttled Validation, MV Stellar Banner, Brazil 2020



Date: 27 th October 2023

**Windsor Florida Hotel
Rua Ferreira Viana, 81
Flamengo, RJ
Brasil**

Objectives

- Starting from the risk scenarios of Brazil, Mauritius and Peru and their incidents of oil spills allow the participants to explore the future preparedness needs in response of strategies to changing fuels, cargoes, scuttled vessels, evolving global weather patterns and the demands of crisis communications.
- Understand the historical model of the existing Contingency Plans in Brazil, Mauritius and Peru and the reasons for organizing the response.
- Understand the causes of these incidents, the main events that triggered them, the participation of the main actors in it.
- Visualize the environmental and socio-economic effects that the spill produced in the affected regions and communities.
- Understand the organization of the ICS developed by the authorities to deal with spills and, in parallel, the activities monitoring scheme established by the authorities of Brazil, Mauritius and Peru.
- Present the response strategies used by participating OSROs in these responses and their effectiveness.
- Visualize the effectiveness of the international support received by Mauritius and Peru, after their request for help from the UN and friendly countries.
- Understand the work of recovery and rehabilitation of wildlife developed by the NGOs in Mauritius and Peru (AIUKA) and in this case that of the Brazilian specialists assigned for such purposes.
- Visualize the lessons learned for Brazil and Latin America from these spills and scuttled strategies, considered the ones with the greatest consequences for the Indian Ocean area and for Latin America in this 21st century due to their environmental and socio-economic effects.

Expected results

With the direct participation of tankers with destination and origin in Brazil, it is expected that the Brazilian and Latin American participants will be able to assimilate the lessons learned in these level of incidents and spills, specially with evolving global weather patterns and demands of crisis communications, and with consequences in marine and coastal impacts, which occurred in the coastal areas of Brazil, Mauritius and the Peru. Likewise, to analyze the effect of not having the National Contingency Plans updated in both cases, which implied delays in the organization and in the notification and assessment stages, with consequences. In the same way, understand the importance of being able to configure the COP (Common Operational Figure), which implies that all the actors get involved and visualize-agree on the scenarios that arise during these spills, in order to facilitate and make decision-making effective. Analyze the role in the response of the intervening OSROs, local, regional and international, pointing out aspects that can improve their management and lessons learned for Brazil and Latin America.

Participants

OceanPact Supervisory and Management Personnel – OceanPact Clients (Management level) – Federal, Maritime, Port and Environmental Authorities – OceanPact Guest

Speakers

OceanPact Appointed Member – Erik Fábio Cunha Chief Marketing Officer OceanPact - erik.cunha@oceanpact.com - Programme and Round Table Moderator Adriano Ranieri - EnvironPact Manager - adriano.ranieri@wittobriens.com.br

Matthew Sommerville – ISCO Executive Committee, Hon. FISCO, Ambassador – IMO External Advisor – Spectrum Spill Services Limited - matthewsommerville@spectrumspill.com

Carlos Sagrera – IMO External Advisor – ISCO Latin America Representative (Spanish Speaking) - carlos.sagrera@mtcconsult.org

CEDRE – Fanny Chever – Duty Officer Analysis and Resources Department (fanny.chever@cedre.fr) & Elizabeth Marin (elizabeth.marin@cedre.fr)

ARPEL – Marcus Vinicius Lisboa - Advisor environmental accidents with oil spills

AIUKA – Valeria Ruoppolo – Director AIUKA

Organization

Bernardo Seefelder de Assis - Gerente Comercial OceanPact - bernardo.assis@oceanpact.com Tel. + 55 (21) 3032-8515 - +55 (21) 98893-8011

Contact

Anna Gomide - Gerente de Marketing e Comunicação - anna.gomide@oceanpact.com Tel.: + 55 (21) 3950-7544 - + 55 (21) 98864-3194 Paulo Tristao da Fonseca – Marketing e Comunicação – paulo.fonseca@oceanpact.com Tel. + 55 (21) 3032 -6700 - + 55 (21) 97585-5668 www.oceanpact.com

Maritime Pollution and 21st Century Oil Spills Lessons Learned for Brazil & Latin America Preparedness, Response and Crisis Management: Cases Studies

The Volcano, Tsunami and the Mare Doricum Tanker, Peru 2022

VLSFO, Covid 19 and the Bulk Carrier Wakashio, Mauritius 2020

VLSFO, Scuttled Validation, MV Stellar Banner, Brazil 2020

Day 27.10 ACTIVITY RESPONSIBLE

08:00 – 08:30 Registration of participants Administration OceanPact ISCO – Secretary

08:30 – 08:45 Opening and words of welcome Matthew Sommerville ISCO Executive Committee Flavio P. de Andrade CEO OceanPact

08:45 – 09:00 Presentation of the Seminar Presentation of the Speakers Presentation of the Participants Érik F. Cunha – Moderator (OceanPact) Carlos Sagrera – ISCO Latin America Representative

Panel I - Case Study Mare Doricum – Peru

09:00 – 09:45 Peru Case Study: Mare Doricum Incident Response & Organization Organization Carlos Sagrera (ISCO)

09:45 – 10:30 Peru Case Study: The International Support Fanny Chever & Elizabeth Marin (CEDRE)

10:30 – 11:00 Peru Wildlife Response Valeria Ruoppolo (AIUKA)

11:00 -11:15 Coffee Administration OceanPact

Panel II - Case Study Wakashio - Mauritius

11:15 – 12:00 Mauritius Case Study: Wakashio Incident and Response Response Organization Matthew Sommerville (ISCO)

12:00 - 12:45 Mauritius Case Study: The International Support Fanny Chever & Elizabeth Marin (CEDRE)

12:45 - 14:00 Lunch Free for Participants

Panel III - Case Study Stellar Banner - Brazil

FINAL PROGRAMME FOR RIO SEMINAR ON 27th OCTOBER 2023 (CONTINUED)

14:00 – 14:45 Spill Control in Brazil: Prevention and Response in the 21st Century Marcus Vinicius Lisboa - ARPEL

14:45 – 15:30 Brazil Case Study: Steller Banner Incident and Response Adriano Ranieri - EnvironPact

15:30 – 16:00 Brazil Case Study: Current Demands and Actions by Brazilian Authorities on Oil Spills Brazilian Authorities (to be confirmed)

16:00 – 16:15 Coffee Administration OceanPact

Panel IV – Conclusions

16:15 – 17:45 Round Table: Lessons Learned in America Flavio P. de Andrade - OceanPact Matthew Sommerville – ISCO Adriano Ranieri – EnvironPact Carlos Sagrera – ISCO Fanny Chever & Elizabeth Marin (CEDRE) Marcus Vinicius Lisboa (ARPEL) Moderator: Erick Cunha (OceanPact)

Closure

17:45 – 18:00 Delivery of Certificates Flavio P. de Andrade - CEO OceanPact Matthew Sommerville - ISCO Executive Committee, Erik F. Cunha – Commercial Director OceanPact

18:00 – 20:00 Seminar Closure Cocktail Appointment of Flavio P. de Andrade as ISCO Ambassador in Brazil Matthew Sommerville ISCO Executive Committee Flavio P. de Andrade - CEO OceanPact

16:15 – 17:45 Round Table: Lessons Learned for Brazil and Latin America Flavio P. de Andrade - OceanPact Matthew Sommerville – ISCO Adriano Ranieri – EnvironPact Carlos Sagrera – ISCO Fanny Chever & Elizabeth Marin (CEDRE) Marcus Vinicius Lisboa (ARPEL) Moderator: Erick Cunha (OceanPact)

18:00 – 20:00 Seminar Closure Cocktail. Appointment of Flavio P. de Andrade as ISCO Ambassador in Brazil Matthew Sommerville ISCO Executive Committee Flavio P. de Andrade - CEO OceanPact.

MESSAGES FROM EVENT ORGANISERS

USA: CLEAN GULF CONFERENCE & EXHIBITION – SAN ANTONIO, NOVEMBER 7-9, 2023

A full, printable program is available for the 2023 CLEAN GULF Conference & Exhibition, taking place November 7-9 in San Antonio, TX. Check out the digital program and see what's in store at this year's CLEAN GULF! [Download the program](#)

INDIA: SPILLTECH – “PROTECTION AND RESTORATION OF OCEAN HEALTH” NEW DELHI, 8-9 NOVEMBER 2023

The SPILLTECH Conference provides a vital forum for professionals from the international response companies, private sector, government & non- governmental organizations and academia to come together to come-out with an effective and efficient methodologies to tackle the spill challenges faced by Industries. The practical knowledge sharing, discussions on new innovation in this field and latest technological development will help to safely & effectively handle these spill situations to save marine life and save the environment. [Download the Event Brochure](#)

USA: SAVE THE DATE FOR IOISC 2024

[International Oil Spill Conference \(IOISC\)](#) in New Orleans, May 13-16, 2024

IOISC has Extended the Space Selection Deadline. IOISC will be holding an online Space Selection on Wednesday, 9/27. To participate in the online Space Selection a contract must be submitted by Wednesday, 9/20.

#IOISC2024 provides a vital forum for professionals from the international response community, private sector, government, and non-governmental organizations to come together to tackle the greatest challenges facing us with sound science, practical innovation, social engineering and imagination. Mark your calendars and start planning your trip to join over 1,500 attendees from over 50 countries, representing government agencies, contractors, researchers, industry, and other stakeholders as they exchange ideas and lessons learned from actual spill responses and research around the world. Stay tuned, registration details will be announced in August. We look forward to seeing you in New Orleans next year.

Learn More about IOISC 2024 Be sure to follow IOISC on [Facebook](#), [Twitter](#), and [LinkedIn](#) for updates and announcements about #IOISC2024. Please contact registration@iosc.org for questions or additional information. Interested in exhibiting or sponsorship? Please reach out to: exhibits@iosc.org

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

USA: CLEAN WATERWAYS 2024 – CALL FOR PRESENTATIONS

Update issued September 12 - Registration has officially opened for the 2024 CLEAN WATERWAYS Conference, taking place at the Duke Energy Convention Center in Cincinnati, OH, April 9-11. Registration rates are at the lowest rates we will offer all year and they will increase by \$150 after Friday, October 27th.

April 9-11, 2024, Cincinnati, OH – “Incident Prevention & Response for Inland Regions & Waterways” [View the website](#)

The CLEAN WATERWAYS program is developed by a government/industry-based committee of approximately 50 professionals, and the committee is looking for leaders to help shape the conference. All abstracts submitted are reviewed for content and relevance by the committee and are selected by consensus. **Abstracts will be accepted for consideration until Friday, September 15, 2023.**

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATIONS

This is a subscription service. <https://www.tender247.com/keyword/oil+spill+tenders+global>

OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/>

US Federal Contract Opportunities are posted at <https://clu-in.org/Federal-Contract-Opportunities>

European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter at - <https://www.emsa.europa.eu/newsroom/newsletters.html>

ISCO Members can post requests for submission of invitations to tender for supplies / services in this section. The ISCO Newsletter is circulated to nearly 3,000 registered subscribers in 60 countries worldwide and represents a well targeted audience for sourcing invitations to tender. Send requests to the Editor – john.mcmurtrie@spillcontrol.org

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<https://spillcontrol.org/2021/10/19/links-for-downloading-and-reading-other-publications/>

As a service to its Members ISCO provides a listing of publications that may be of interest to our community. This page provides details and links for downloading more than 40 publications most of which can be accessed at no cost. This page is managed by Mike Watson mike@mwadigital.com

NEW PUBLICATIONS

UNEP PERSPECTIVE ISSUE NO. 44: AN OPPORTUNITY TO END PLASTIC POLLUTION: A GLOBAL INTERNATIONAL LEGALLY BINDING INSTRUMENT



An Opportunity to End Plastic Pollution: A Global International Legally Binding Instrument

By Ocean Conservancy

In this Issue, Ocean Conservancy discusses measures that should be included in an International Legally Binding Instrument (ILBI) for beating plastic pollutions.

[Download this issue](#)

INCIDENT REPORTS

MARITIME ACCIDENT REPORTS FROM THE MARITIME BULLETIN

In the Maritime Bulletin, Mikhail Voytenko regularly advises on vessel abandonments, groundings and sinkings – several every week – but, unless there is an immediate and significant release of oil or chemicals, spillages are not reported. However, many of Mikhail’s reports cover incidents that may have potential to cause pollution. To view all of his reports, visit <https://www.maritimebulletin.net/>

UKRAINE: BLACK SEA POLLUTION AFTER KAKHOVKA DAM DISASTER

September 9 - When Russia blew up the Kakhovka Dam, it set off an ecological disaster. Scientists are now trying to gauge to what degree the Black Sea, into which the Dnipro flows, will be affected. On the night of June 6, the Nova Kakhovka dam on the Dnipro River was destroyed by Russians. The disaster swept through an area of the Kherson region inhabited by 40,000 people, pouring hundreds of tons of crude oil and other chemical waste into the Black Sea off the coast of the Odesa region. Over the next few days, animal carcasses and human corpses appeared along with the wreckage. Industrial waste, rich in heavy metals, which had been deposited at the bottom of the dam for years, was also washed into the sea. Kyiv Post / [Read more](#)

USA: KANSAS - EPA RESPONDS TO OIL SPILL IN QUIVIRA NATIONAL WILDLIFE REFUGE

September 13 - On September 12, the Kansas Corporation Commission notified the Environmental Protection Agency of the oil discharge to Rattlesnake Creek in Stafford County, according to Ben Washburn, Public Affairs Officer for EPA Region 7.

The responsible party reported 90,000 gallons of brine, salt water generated during oil production, spilled from a disposal well line that transects Rattlesnake creek approximately 0.25 mile east of NE 90th Avenue. The brine contained an estimated 600 to 700 gallons of oil. An EPA On-Scene Coordinator mobilized to the response on Tuesday evening. Great Bend Post / [Read more](#)

UK: SCOTLAND - MOUNTING DEAD FISH IN RIVER SPEY SPARKS URGENT SEARCH FOR POTENTIAL CHEMICAL LEAK

September 15 - An urgent investigation has been launched amid concerns about a possible chemical spill in the River Spey with mounting numbers of dead fish. Press & Journal / [Read more](#)

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ISCO's weekly newsletter is focused in international, regional and national news that is of interest to professionals, companies and organisations involved in oil and chemical spill control and the emerging field of CBRN incident response.

Through the Newsletter and its other activities, ISCO is disseminating information on new developments – technical advances, legislation, events and other matters that affect the international spill response community.

To receive a copy of the new media pack please contact
spillcontrol@mwadigital.com

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