



## 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

## RISING SHADOW FLEET OF OIL TANKERS INCREASES THE RISKS OF OIL SPILLS ON SEAS

Oil spills from “shadow” fleet ships pose significant environmental risks and can cause long-lasting damage to marine ecosystems. “Shadow” fleet ships are vessels that operate outside standard regulations and often engage in illegal activities, such as fishing or smuggling.

These ships are typically older and less well-maintained than those in the regular fleet, increasing the likelihood of equipment failures and accidents. When a spill occurs, it can contaminate vast areas of water, coat wildlife and habitats in oil, and harm local economies that rely on tourism and fishing, Renewable News / [Read more](#)

## ON WORLD MARITIME DAY, IMO CELEBRATES 50 YEARS OF MARPOL



*A MARPOL compliance inspection in progress (USCG file image)*

On this year's World Maritime Day, the International Maritime Organization is celebrating the 50th anniversary of the International Convention for the Prevention of Pollution from Ships (MARPOL), the cornerstone of environmental regulation for shipping. MARPOL bans discharges of oil and plastic, and it regulates disposal of sewage, noxious liquids, harmful substances and air.

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(Members with special responsibilities in specified geographical areas)


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(MISCO) or FELLOWSHIP (FISCO)

## INTERNATIONAL & REGIONAL NEWS (CONTINUED)

pollutants. It has been amended many times over its half-century of existence, and has grown alongside the industry's environmental commitments. The Maritime Executive / [Read more](#)

## IOPC FUNDS CELEBRATING WORLD MARITIME DAY WITH WEBINAR SERIES LAUNCH

On World Maritime Day, we are extremely proud to contribute to the protection of the world's oceans through our work at the IOPC Funds. Working alongside the International Maritime Organization (IMO), shipowners, insurers, the oil industry and the wider maritime community, we support all efforts to ensure the safe transport of goods by sea. We remain ready to provide financial support to those affected in the event of a major pollution incident, for costs of clean-up operations and the restoration of the marine environment.

In recognition of this significant day and to increase awareness of the international liability and compensation regime for oil pollution and the work of the IOPC Funds, we are pleased to announce the launch of a series of short webinars. These webinars will cover a wider range of topics, from the basic understanding of the Conventions to the financing of the system, the types of claims arising from tanker incidents, and the claims submission process.

The first session, titled "Understanding the Conventions – An introduction to the regime" will take place on 18 October 2023. Click [here to register](#). For further information, please contact the Secretariat on [externalrelation@iopcfunds.org](mailto:externalrelation@iopcfunds.org) IOPC Funds / [Read more](#)

## MARPOL – SOME SOME THOUGHTS FROM PEOPLE IN THE BIMCO SECRETARIAT

Intense public scrutiny of the devastating impact on marine life of plastic pollution is quite a recent development. For shipping, however, the tale began back in the late 1980s with MARPOL Annex V prohibiting the discharge of garbage and specifically plastics from ships. It has proven to be a powerful tool in the fight to limit the amount of plastics reaching the ocean from sea-based sources- and it's a really good news story for shipping particularly compared to the amount of plastics reaching the ocean from land. That's why it's my favourite Annex of MARPOL. And it's truly encouraging to see the dialogue continue on how MARPOL can be used to further protect the ocean from plastic pollution. Perhaps one day we might even be a world where ships do not have any unnecessary single-use plastics onboard at all – which would see shipping

as a global leader and change-maker. [Dr Bev Mackenzie, Head of Intergovernmental Engagement (London)]

More comments from the BIMCO team / [Read more](#)

## LINER INDUSTRY SEEKS HELP FINDING MIS-DECLARED DANGEROUS GOODS IN CONTAINER SHIPPING

Despite efforts from industry and government, mis-declared dangerous goods continue to cause fires and explosions on board containerhips, endangering lives and the environment. To address the issue, the World Shipping Council (WSC) is taking action to strengthen cargo safety standards and protect the supply chain.

Containership fires have been on the rise, often due to mis-declared hazardous cargo. According to the 2023 Allianz Safety and Shipping Review, there have been 64 reported fires on containerhips in the past five years. In 2022, fire-related incidents at sea increased by over 17% compared to the previous year. One of the key factors contributing to these fires is hazardous cargo that has not been declared, mis-declared or that has not been properly packed by shippers. gCaptain / [Read more](#)

## EUROPE: PROTECTING ENVIRONMENT AND HEALTH: COMMISSION ADOPTS MEASURES TO RESTRICT INTENTIONALLY ADDED MICROPLASTICS

September 25 - Today, the Commission takes another major step to protect the environment by adopting measures that restrict

## INTERNATIONAL & REGIONAL NEWS (CONTINUED)

microplastics intentionally added to products under the EU chemical legislation REACH. The new rules will prevent the release to the environment of about half a million tonnes of microplastics. They will prohibit the sale of microplastics as such, and of products to which microplastics have been added on purpose and that release those microplastics when used. When duly justified, derogations and transition periods for the affected parties to adjust to the new rules apply. European Commission / [Read more](#)

## ISCO NEWS

### XIX SLOM CONFERENCE, ISCO LATIN AMERICA RECOGNITION AND SIGNING OF ISCO-SLOM MOU - RIO DE JANEIRO – BRAZIL

A Report from Carlos Sgrera, Carlos Sagrera, MSc., IMO External Advisor, Hon. FISCO - ISCO Representative in Latin America, ISCO Exec. Committee Member & Council Member.



Photos courtesy of SLOM – Top left, Mr Francisco Barrato (Brazil) President of SLOM delivers the Recognition Plaque to ISCO; Top right, The delegation from Peru; bottom left participants at the SLOM meeting; bottom right, the commemorative plaque to celebrate the signing of the ISCO-SLOM MOU.

The XIX Meeting of the Latin American Society of Oil and Monobuoy Terminal Operators (SLOM) was held in Rio de Janeiro from 25th to 29th October with a record of 31 operating companies, more than 400 participants and 27 countries present. It is undoubtedly the largest industry event of its kind and also one of the best in terms of technical quality in Latin America. Chile, Colombia, Ecuador and Peru had the largest number of foreign participants, in addition to the host Brazil. The activity started on Monday 25th with a visit to the OSRL Base in Caju (MultiRio Terminal in the port of Rio de Janeiro) which houses the Capping Stack System and the Flexible Flowlines and 4000 m<sup>2</sup> of oil spill control equipment in outdoor storage, warehouse and offices. In addition, OSRL experts (Vicente Allevalo, Daniel Cruz, Tristan Barton) gave presentations on Case Studies, Crisis and Emergency Preparedness for Marine Operations and IMS.

On Tuesday 26th was the INTERTANKO (Mr. Patrick Keffler- Regional Manager Americas, Franz Ubahgs) conference with

TRANSPETRO (Mr. Jones Soares) in the morning and OCIMF (Mr. Filipe Santana, Ton Mol, Saurabh Sachdeba) in the afternoon with a series of lectures of their experts on various topics on tanker operations and with emphasis on the issues of safety, training and environment among others in the case of INTERTANKO and in the case of OCIMF emphasized aspects of Barges, human factors, IMO strategy, maritime safety, training of inspectors, SIRE 2.0, etc. It was interesting to learn about the lack of personnel in Brazil for maritime and offshore activities and the efforts being made to encourage new generations to train in these professions.

Between 27th and 29th September was the XIX Conference with an intense programme of specialised conferences, workshops on the human factor in the operations of maritime and oil terminals (Fabian Sánchez – SLOM), digital transformation in the maritime-petroleum industry (Gonzalo Mera – SLOM), material protection and performance (Juan Caballero – AMPP), updating on the use of hose systems (TRANSPETRO), diversity and inclusion in the maritime-petroleum industry (PETROBRAS), and other diverse technical topics (<https://www.jornadaoperadores.slom.co/en/program>).

Within the framework of this event, ISCO signed an MOU with SLOM to promote initiatives that improve the safety of maritime operations in relation to pollution from oil spills and the operational performance and comprehensive maintenance of ships, maritime oil and gas terminals (available on the ISCO website). Finally, SLOM recognized ISCO in Latin America with the delivery of a plaque for its role in promoting best practices to maintain clean, safe and efficient operations in Maritime Oil Terminals. At the closing of the event the SLOM Board of Directors (Francisco Barreto - President; Gonzalo Mera - Vice President) made conclusions about the event and announced the XX SLOM Conference in Punta del Este (Uruguay) in 2024. Under this new leadership of the SLOM Board that was initiated post-pandemic once again SLOM succeeds in successfully hosting this annual flagship event in Latin America that raises the bar for marine terminals and oil monobuoys and for which it is considered in its regional leadership by the sector's leading organisations. ISCO Latin America thanks the SLOM Board for integrating us and acknowledges especially José Perdomo (Technical Secretary of SLOM) and María Camila López (Executive Secretary of SLOM) for their technical support and management administrative to make this relationship happen during the last months.

## THE FUTURE OF OIL SPILL RESPONSE – ISCO DISCUSSION PART 1

Everyone involved in oil spill response should be concerned by the ongoing pressures to reduce world dependence on the use of oil. This includes:

- Pressure from environmental organisations and governments to reduce emissions of CO<sub>2</sub> and other greenhouse gases.
- Trend for shipping to switch to alternative fuels such as ammonia, hydrogen, methanol and LNG
- Increasing use of battery-powered cars, trucks, other road transport and small vessels such as ferries.
- Reducing the use of oil to power manufacturing processes
- In some parts of the world, reductions in offshore and onshore production of crude oil
- Other factors will contribute to reducing future requirements for oil transportation

The use of oil as a fuel will continue for many years, but an inevitable consequence of the above is likely to be a continuing reduction in the frequency of oil spills.

ISCO members include leading oil spill contractors, manufacturers of oil spill response equipment and materials, and many consultancies and training providers with a focus on oil spill response.

Faced with a size of market that is forecast to diminish, albeit slowly, over coming years, our members are going to have to consider how they can adapt to ensure the continued prosperity of their enterprises and the future of their employees.

People, both company owners employees, involved in the oil spill response industry are quite unique. Over many years they have acquired in-depth knowledge and experience. Many also have a very special skills in relation to the work they do and a high level of dedication.

Responders also have a culture which involves rapid mobilisations, long and often unsociable work, often in difficult or dangerous conditions; meeting short manufacturing deadlines, and organisation of “on job” training of response volunteers at short notice. They are also motivated by the knowledge that their efforts are helping to take care of our environment.

## ISCO NEWS ( CONTINUED)

Similarly ISCO needs to expand its focus to include other spill responses including those to plastics (both micro and macro), chemicals and other materials. This process has already begun.

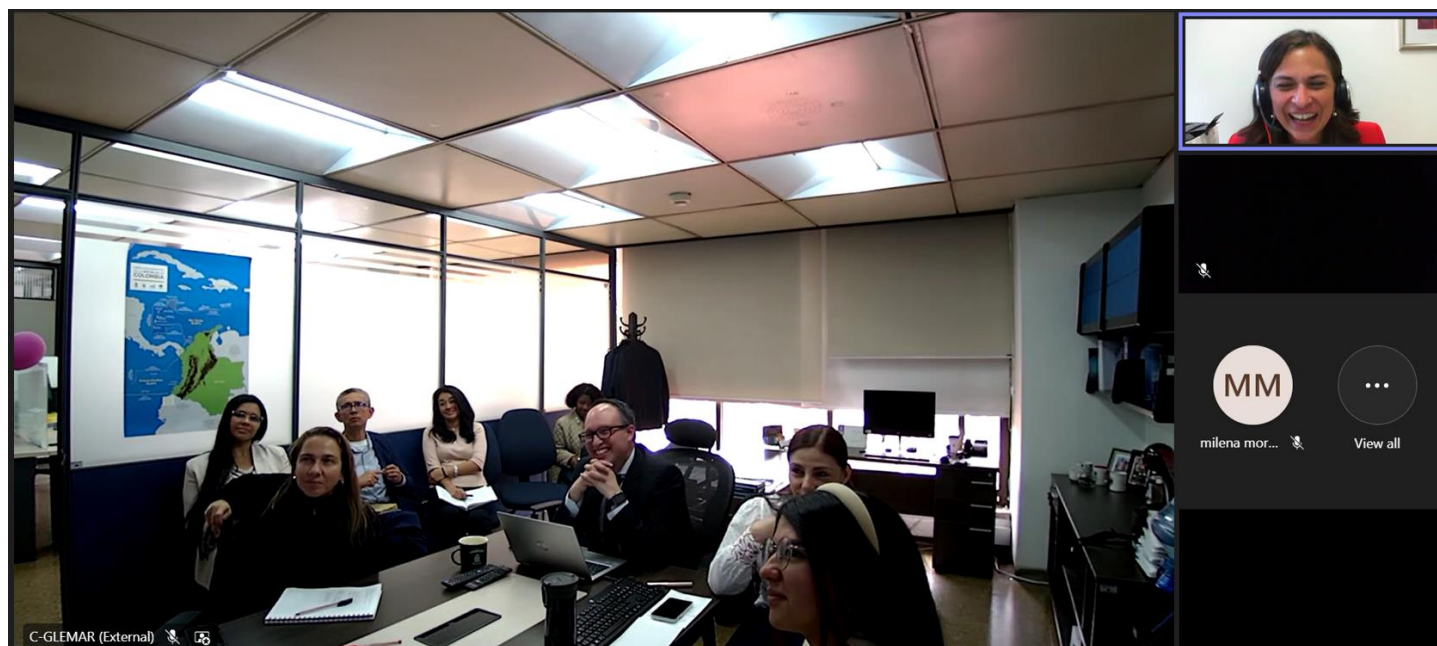
ISCO intends to address these issues and would like to engage with our Corporate Members in developing strategies for adapting to market changes. To be continued.

## NEWS FROM AROUND THE WORLD

### CANADA: GOVERNMENT MAKES TRANSFORMATIVE INVESTMENTS TO CLEAN UP AND PROTECT THE BAY OF QUINTE AND OTHER AREAS OF THE GREAT LAKES

September 28 - Today, the Honourable Steven Guilbeault, Minister of Environment and Climate Change, announced an investment of more than \$2.7 million over three years in 24 projects that will advance Great Lakes priorities under the Freshwater Action Plan. The new projects support region-specific actions to restore water quality and ecosystem health, with a focus on Great Lakes Areas of Concern, including the Bay of Quinte, which have been identified as having experienced high levels of environmental harm from pollution. Canada Environment / [Read more](#)

### COLOMBIA: IOPC FUNDS - WEBINAR HELD FOR THE MARITIME AUTHORITY



The IOPC Funds were invited to participate in an online event organised by the Maritime Authority of Colombia (DIMAR) on 28 September 2023. Liliانا Monsalve, Deputy Director and Head of Claims, presented a comprehensive overview on the international liability and compensation regime for ship-source oil pollution. During her presentation, she highlighted that Colombia had ratified both the 1992 Civil Liability Convention and the 1992 Fund Convention, but it had not yet adopted the Supplementary Fund Protocol. *Photo courtesy of IOPC Funds.* IOPC Funds / [Read more](#)

### COSTA RICA : A SCALABLE PILOT IS TRAPPING AND REPURPOSING PLASTIC WASTE BEFORE IT REACHES THE OCEAN

July 14 - The bright yellow barrier, 78 meters long, stretches across the length of the Virilla River in the Greater Metropolitan Area (GAM) of Costa Rica. It's early July, the height of the rainy season, but the last few days have been abnormally dry—one of the many emerging effects of climate change in the region. The river is calm and sits around four meters below its typical height, so Ana Yancy Arce, Manager of Sustainability and Communication for Corporation Pedregal, a construction and manufacturing company based in Heredia, Costa Rica, was able to lead the group participating in the UrbanShift City Academy on Integrated Climate Action Planning and Nature-Based Solutions in San José right up to its banks to explain the significance of the barrier across the river. Shiftcities / [Read more](#)

### GREECE: FAKE COORDINATES AND TANKER TRICKS EXPOSE SHADOWY RUSSIAN OIL TRADE

September 27 - On a sunny day off the southern coast of Greece last week, two aging tankers nestled next to each other while one pumped oil to the other. As far as global satellite tracking systems could tell, it never happened.

## NEWS FROM AROUND THE WORLD (CONTINUED)

The deviation between real and electronic locations — measured in this case at over four miles — wasn't a glitch, but a deliberate deception that's part of a sophisticated system to keep sanctioned Russian fuel flowing, often at prices that are higher than western powers would like.

The practice of giving fake coordinates to the automatic identification system, known as AIS, is called spoofing. It muddies understanding of where cargoes come from, soothing nervy buyers trying to conceal dealings with Russia following international measures to punish the country over its invasion of Ukraine. [gCaptain / Read more](#)

### INDIA: ATTEMPT TO REVIVE BUCKINGHAM CANAL - BIOREMEDIATION TRIAL STARTS

September 24 - The Chennai Metropolitan Development Authority (CMDA) and the Water Resources Department (WRD ) are attempting to clean the polluted Buckingham Canal in Chennai using a bioremediation process. The process involves releasing a mixture of bio-culture and water into the canal into the canal through pipelines. [Times of India / Read more](#)

### NIGERIA: 2023 WORLD RIVERS DAY: OUR RIVERS UNDER THREAT BY CLIMATE CHANGE, POLLUTION — FG

September 27 - The Minister of Water Resources and Sanitation, Joseph Utsev, who raised the alarm along with the Minister of State, Federal Ministry of Water Resources and Sanitation, Bello Goronyo, and the Permanent Secretary of the Ministry, Esther Walson-Jack, pointed out that the 2023 World Rivers Day was a day basically set aside world over to draw attention to the World's river courses and other waterways. [Vanguard / Read more](#)

### PERU: PERUVIAN AMAZON: WOUNDS REMAIN AFTER 50 YEARS OF OIL SPILLS ON ACHUAR LAND

September 27 - Achuar Indigenous people from the community of José Olaya live near sites impacted by oil-related activity in and around their territory. According to reports by Peru's environmental authority, toxic metals like cadmium, arsenic and lead have been detected in the area.

Journalists from Mongabay Latam traveled to four areas — Shiviycu, Forestal, Huayuri and Teniente López — where there were pipelines, puddles of oil, barrels with potential contaminants and oil-covered creeks and plants.

According to the environmental authority, José Olaya is the location of eight of the 171 "impacted sites" that the Peruvian government has registered so far. There are 3,170 environmental liabilities caused by oil in the rest of the country. [Mongabay / Read more](#)

### PHILIPPINES: COAST GUARD'S 122ND ANNIVERSARY EVENT

September 27 - The IOPC Funds were invited to participate in an online event organised by the Philippine Coast Guard (PCG), Manila, Philippines on 27 September 2023.

The event marked a significant occasion as the PCG celebrated its 122nd anniversary in the month of September. As part of the celebration, the PCG hosted a series of activities aimed at raising awareness and providing education on the subject of oil spills and their consequences. [IOPC Funds / Read more](#)

### THAILAND: COAST GUARD TAKES UP PUNEET SAGAR ABHIYAN IN BANGKOK

September 22 - Indian Coast Guard (ICG) pollution control vessel Samudra Prahari took up a Puneet Sagar Abhiyan – a clean-up exercise – at the Pattaya Beach on Wednesday along with Thailand's Royal Navy, Maritime Enforcement Coordination Centre (MECC) and customs, marine and fisheries department The exercise involved a scenario that tested Thailand's contingency plan in dealing with a real-life oil pollution scenario. It demonstrated India's maritime expertise and commitment towards addressing shared challenges. [Deccan Chronicle / Read more](#)

### UK: ONE IN SIX SPECIES AT RISK OF EXTINCTION IN GREAT BRITAIN, SAY WILDLIFE EXPERTS

September 27 - The State of Nature report, published on Wednesday, features work from 60 research and conservation organisations based on data from monitoring schemes and biological recording centres, to provide a benchmark for the status of the UK's wildlife. Previous editions were published in 2013, 2016 and 2019.

The report found the intensive way in which we manage our land for farming and the continuing effects of climate change are the two biggest drivers of nature loss. For marine creatures, climate change and unsustainable fishing are the largest factors. [The Guardian / Read more](#)



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**27 October 2023**

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### UKRAINE: UKRAINE NUCLEAR PLANT UPDATE

September 26 - "We are not going anywhere" is the message coming from UN nuclear safety watchdog IAEA chief Rafael Grossi, about the agency's commitment to continued monitoring of Ukraine's nuclear power plants during Russia's ongoing invasion.

Addressing the opening of the IAEA's General Conference in Vienna on Monday, Mr. Grossi said that 53 missions mobilizing more than 100 agency staff have been deployed as part of a continued presence inside Ukraine's five nuclear power plants. These include the Zaporizhzhya Nuclear Power Plant, or ZNPP, on the Dnipro River in southern Ukraine, where Mr. Grossi said that the situation remained "very fragile". News UN / [Read more](#)

### UKRAINE: WITH THE OSCE SUPPORT, THE UKRAINIAN CIVIL PROTECTION AGENCIES PRACTICE INTERAGENCY RESPONSE TO CHEMICAL EMERGENCIES

September 28 - Over 100 rescuers, police officers, medics and officials enhanced their co-operation skills at a two-day table-top chemical emergency response exercise, organized by the OSCE Support Programme for Ukraine together with the country's State Emergency Service in Rivne, on 26-27 September. Relief Web / [Read more](#)

### USA: LATEST NEWS REPORT FROM NOAA OR&R

September 25 – Please click on the link below to download and read the latest news from NOAA OR&R

#### Long Point Bayou Marsh Restoration Underway to Compensate for Calcasieu Estuary oil spill

OR&R's Dan Hahn joined NOAA Restoration Center staff, along with Louisiana State Trustees on a September 14th site visit to the Long Point Bayou marsh creation project. The site visit was to assess the progress made on restoration that targets 392 acres of marsh creation as part of the actions to compensate the public for the lost natural resources resulting from the [2006 CITGO Slop oil spill](#) into the Calcasieu River.

### USA : PENNSYLVANIA DEP PUBLISHES FINAL INTERIM ENVIRONMENTAL JUSTICE POLICY

September 21 - The Pennsylvania Department of Environmental Protection (DEP or the Department) has issued a new environmental justice (EJ) policy (Interim Final EJ Policy)—published as an interim final policy effective on 16 September 2023—that will materially impact how and when major environmental permits are issued in Pennsylvania and also impact enforcement of environmental laws in EJ areas. Mondaq / [Read more](#)

### USA: CONNECTICUT ESTABLISHES MECHANISM TO FUND MUNICIPAL PFAS TESTING AND REMEDIATION – MONEY TO (HOPEFULLY) FOLLOW

September 24 - As the environmental, health, legal and technical issues concerning per- and poly-fluoroalkyl substances (PFAS) continue to make headlines across the country, Connecticut responded by creating a dedicated fund to be used by the Department of Energy & Environmental Protection (DEEP), in consultation with the Department of Public Health (DPH), to assist municipalities and qualifying special districts to test for the presence of, and remediate, PFAS contamination in drinking water supplies. Mondaq / [Read more](#)

### USA: WITH THOUSANDS OF TAINTED SITES, MICHIGAN DEMS EYE RETURN TO 'POLLUTER PAY'

September 25 - For nearly three decades since Michigan weakened its 'polluter pay' law, lawmakers have debated whether to reverse course. The move hastened redevelopment of contaminated sites, but left thousands of properties for taxpayers to clean up. Democrats say they're planning a renewed push for reforms, with Republicans and business groups seeing some common ground. Bridge Mi / [Read more](#)

### USA: TOXIC RED TIDE ALGAE, LAST SEEN IN 2018, RETURNS TO TEXAS COAST

September 25 - Toxic algae blooms known as red tide have been detected in multiple sections of the Texas Gulf Coast including the upper coast around Galveston Bay and the lower Laguna Madre in the Rio Grande Valley, the Texas Parks and Wildlife Department said. It's the first time Texas has seen a red tide since 2018, when it affected the upper and middle parts of the state's coast. Texas Tribune / [Read more](#)

## PEOPLE IN THE NEWS

### IRELAND: NEW DIRECTOR JOINS EPA BOARD

The Environmental Protection Agency (EPA) is pleased to welcome David Flynn onto the EPA Board. David will take up his new position as Director of the EPA in October 2023. EPA / [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](mailto: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](mailto:mike@mwadigital.com) He will be happy to help you.

## ENSURING ENVIRONMENTAL SAFETY – LAMOR'S VITAL ROLE IN OS 35 BULKER SALVAGE



In August 2022, OS 35 bulk carrier hit another vessel and sank off Gibraltar. Its salvage from the seabed was a major undertaking, requiring careful planning to ensure safety and success of the operation. Lamor was contracted for on-site support to ensure that no oil residues from the wreck spread to harm the environment and sea life during the salvage operation. *Photo Courtesy of LAMOR 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.

**240. Changes in the Content and Composition of Hydrocarbons in the Bottom Sediments of the Norilo-Pyasinsk Water System a Year after a Catastrophic Diesel Fuel Spill**

Nemirovskaya I.A., Glyaznetsova Y.S., Sokov A.V.  
(2023) *Doklady Earth Sciences*, 511 (2), pp. 652 - 658,  
DOI: 10.1134/S1028334X23600858

**ABSTRACT:** One year after the emergency diesel fuel spill in Norilsk, the hydrocarbon concentrations in bottom sediments of the Norilo-Pyasinsk water system decreased. However, the average decrease in the areas occurred in the same sequence ( $\mu\text{g/g}$ ) as in 2020: the mouth of the Ambarnaya River (835,  $\sigma = 1788$ ) > Bezymyanni Creek–Daldykan River–Ambarnaya River (306,  $\sigma = 273$ ) > the Pyasina River (23,  $\sigma = 20$ ) > Pyasino Lake (12,  $\sigma = 8$ ). The concentrations decreased due to degradation of low molecular weight hydrocarbons. The content of polycyclic aromatic hydrocarbons also changed in a smaller range (0–1027 ng/g) in 2021 than in 2020 (0–3865 ng/g). The petroleum origin of polycyclic aromatic hydrocarbons in the sediments of the Ambarnaya River (including the mouth), Bezymyanni Creek, and the Daldykan River confirms the dominance of alkylated naphthalene homologs in their composition. Hydrocarbon accumulation in certain horizons of the sedimentary stratum is caused not only by seepage of diesel fuel, but also by the input of organic matter from the surrounding swamps and floodplain lakes, as well as by the burial of the surface layer by the 2021 flood.

#### **241. Simultaneous immobilization enhances synergistic interactions and crude oil removal of bacterial consortium,**

Rungsihiranrut A., Muangchinda C., Naloka K., Dechsakulwatana C., Pinyakong O.  
(2023) *Chemosphere*, 340, art. no. 139934,  
DOI: 10.1016/j.chemosphere.2023.139934

**ABSTRACT:** Oil spillage has serious adverse effects on marine environments. The degradation of crude oil by microorganisms may be an effective and sustainable approach. In this study, the removal of crude oil from seawater by immobilized bacterial consortium was performed and the enhancement of crude oil degradation efficiency by varying immobilization methods and inoculum volume ratio was examined. The nonpathogenic and heavy metal-tolerant bacterial consortium of *Sphingobium naphthae* MO2-4 and *Priestia aryabhatai* TL01-2 was immobilized by biofilm formation on aquaporous gels. The simultaneous immobilization of strains MO2-4 and TL01-2 showed better crude oil removal efficiency than independent immobilization, which indicated positive interactions among consortium members in the mixed-culture immobilized systems. Moreover, the immobilized consortium at a 2:1 (MO2-4:TL01-2) inoculum volume ratio showed the best crude oil removal capacity. The immobilized consortium removed 77% of 2000 mg L<sup>-1</sup> crude oil in seawater over 7 days. The immobilized consortium maintained crude oil removal efficacy in semicontinuous experiments. In addition, the immobilized consortium was used to remediate seawater contaminated with 1000 mg L<sup>-1</sup> crude oil in a 20 L wave tank. After 28 days, the crude oil degradation efficiency of immobilized consortium was approximately 70%, and crude oil degradation through natural attenuation was not observed. Moreover, the genomic features of strains MO2-4 and TL01-2 are reported. Genomic analyses of both strains confirmed the presence of many genes involved in hydrocarbon degradation, heavy metal resistance, biosurfactant synthesis, and biofilm formation, supporting the biodegradation results and characterizing strain properties. The results of this work introduce the potential benefit of simultaneous immobilization of bacterial consortia to improve efficiency of crude oil biodegradation and has motivated further investigations into large-scale remediation of crude oil-contaminated seawater.

#### **242. Recent Advances in Soil Cleanup Technologies for Oil Spills: a Systematic Review**

Saharan Y., Singh J., Goyat R., Umar A., Ibrahim A.A., Akbar S., Baskoutas S.  
(2023) *Water, Air, and Soil Pollution*, 234 (8), art. no. 503,  
DOI: 10.1007/s11270-023-06428-z

**ABSTRACT:** The mishaps involving oil containers, tanker collisions, leaks as a result of ruptured oil pipelines, etc. that result in crude oil spills are a very significant topic of concern. Recently, hundreds of oil disasters have occurred, causing enormous economic and human harm. The oil spill adheres to the surface of the silt, making it difficult to immediately clean up the soil. The polycyclic aromatic hydrocarbons in oil have harmful consequences that include being teratogenic, mutagenic, and carcinogenic. Additionally, oil spills may adversely affect humans and the environment by getting into the food chain directly or indirectly. Since removing oil from the soil is an expensive process, there is an urgent need for efficient removal techniques. Over time, numerous researchers have examined the effects of these spills on the soil and created a variety of technologies for their remediation. This review article offers a deep analysis of the technologies used to clean up oil-contaminated soil, including bitumen, diesel, crude oil, petroleum, lubricating oil, and bunker oil. Among the techniques covered are chemical oxidation, electrokinetic remediation, bioremediation, phytoremediation, solvent extraction at high temperatures, coal agglomeration, aerogels, and gelators. Each of these technologies

was extensively covered, along with both their benefits and drawbacks. As a result, no one remediation technique is thought to be the ideal approach for cleaning up oil-contaminated soils. It has been shown that the choice of cleanup technique depends on the types of contamination, since a poor choice may hinder high removal efficiency.

### 243. Responses of Petroleum Contamination at Different Sites to Soil Physicochemical Properties and Indigenous Microbial Communities

Chen G., Yuan M., Ma B., Ren Y.

(2023) *Water, Air, and Soil Pollution*, 234 (8), art. no. 494,

DOI: 10.1007/s11270-023-06523-1

**ABSTRACT:** In order to investigate the response of soil physicochemical properties and indigenous microbial community structures to oil pollution in different regions, and to systematically clarify the commonalities and differences of the effects of external environmental factors on microbial community structure and diversity in oil-contaminated soils around the world, this study collected oil-contaminated and clean soils from four regions in China with distinct geographic locations and climate differences (temperature and rainfall). The total petroleum hydrocarbon content and soil physicochemical properties were analyzed by gas chromatography and conventional chemical testing methods. Meanwhile, 16S rRNA Illumina high-throughput sequencing technology and statistical methods were used to study the microbial community structure composition and diversity of soils at different depths, and the results were compared with literature data from other oil-polluted areas around the world. The results evidenced that oil pollution in different regions would affect soil physicochemical properties, especially total organic carbon. Microbial community analysis showed that external environmental factors had similarity on the phylum level on the microbial community composition and diversity, both dominated by Proteobacteria and Actinobacteria. However, there were significant differences at the genus level. The dominant bacterial genera in contaminated soils from Zhejiang (103–130 mg/kg), Liaoning (2640–8660 mg/kg), Guangdong (43–87 mg/kg), and Xinjiang (16–1100 mg/kg) were *Lysobacter*, *Sphingomonas*, *Burkholderia*–*Caballeronia*–*Paraburkholderia*, and *Nocardioideis*, respectively. Combined with literature reports, we found that the microbial community composition in oil-polluted soils worldwide (Asia, Europe, North America, South America, Africa, Oceania) is consistent with the results of this study. The microbial community diversity laws of oil-contaminated soils summarized in this study at multiple spatial scales provide information for the biological remediation and microbiological evaluation standards of oil-contaminated soils.

### 244. Recurrent arrival of oil spill remnants along the Brazilian coast: In situ long-term weathering of the largest spill in Brazil's history

Lourenço R.A., Lassalle G., Scafutto R.D.M., de Souza Filho C.R.

(2023) *Regional Studies in Marine Science*, 66, art. no. 103175,

DOI: 10.1016/j.rsma.2023.103175

**ABSTRACT:** Three years after the most severe oil spill affected Brazil's coastline, tar balls still recurrently reach the Brazilian northeastern beaches. New accidents involving oil spills have not been reported since 2019. Information on the origin of these new oil deposits remains scarce. Samples of the tar balls found along Brazilian beaches in May 2022 were analyzed for hydrocarbon signatures, revealing a clear link with the oil that washed ashore in 2019. The new tar balls were more affected by biodegradation than photooxidation, suggesting the oil was trapped in the subtidal sediments and was later transported to the coast by marine currents. This work provides the first evidence of the persistence of oil in the marine environment and raises concerns regarding future oil influxes on the Brazilian coast.

### 245. Mind the gap – Relevant design for laboratory oil exposure of fish as informed by a numerical impact assessment model

Frøysa H.G., Nepstad R., Meier S., Donald C., Sørhus E., Bockwoldt M., Carroll J., Vikebø F.B.

(2023) *Science of the Total Environment*, 904, art. no. 166951,

DOI: 10.1016/j.scitotenv.2023.166951

**ABSTRACT:** Laboratory experiments provide knowledge of species-specific effects thresholds that are used to parameterize impact assessment models of oil contamination on marine ecosystems. Such experiments typically place individuals of species and life stages in tanks with different contaminant concentrations. Exposure concentrations are usually fixed, and the individuals experience

a shock treatment being moved from clean water directly into contaminated water and then back to clean water. In this study, we use a coupled numerical model that simulates ocean currents and state, oil dispersal and fate, and early life stages of fish to quantify oil exposure histories, specifically addressing oil spill scenarios of high rates and long durations. By including uptake modelling we also investigate the potential of buffering transient high peaks in exposure. Our simulation results are the basis for a recommendation on the design of laboratory experiments to improve impact assessment model development and parameterization. We recommend an exposure profile with three main phases: i) a gradual increase in concentration, ii) a transient peak that is well above the subsequent level, and iii) a plateau of fixed concentration lasting ~3 days. In addition, a fourth phase with a slow decrease may be added.

### **246. Distribution and abundance of oil-degrading bacteria in seawater of the Yellow Sea and Bohai Sea, China**

Shi H., Gao W., Zheng Y., Yang L., Han B., Zhang Y., Zheng L.  
(2023) *Science of the Total Environment*, 902, art. no. 166038,  
DOI: 10.1016/j.scitotenv.2023.166038

**ABSTRACT:** Petroleum hydrocarbons are widespread in seawater. As an important sea area in northern China, the content and distribution of petroleum hydrocarbons in seawater need our attention because of the high toxicity and lasting polluting effects on the ecological environment of the Yellow Sea and Bohai Sea. In addition, there are few reports comparing the diversity of oil-degrading bacteria before and after enrichment. Therefore, we collected surface seawater from 10 sites in the Yellow Sea and Bohai Sea in the autumn of 2020 to study the distribution characteristics of total petroleum hydrocarbons (TPH) and the diversity of oil-degrading bacteria. The concentration of TPH was 81.65 µg/L-139.55 µg/L at ten sites in the Bohai Sea and the Yellow Sea, which conformed to the China Grade II water quality standard (GB3097-1997). Moreover, the pristine/phytane (PR/PH) value of most sites was close to 1, indicating that the area was obviously polluted by exogenous petroleum hydrocarbons. We found that oil-degrading bacteria in the seawater of the Yellow Sea and the Bohai Sea had a good degradation effect on C11-C14 short chain alkanes (degradation rate of 59.19-73.22 %) and C1-C4 phenanthrene (degradation rate of 48.19-60.74 %). In terms of the diversity of oil-degrading bacteria, Gammaproteobacteria and Alphaproteobacteria dominated the enriched bacterial communities. Notably, the relative abundance of *Alcanivorax* changed significantly before and after enrichment. We proposed that surface seawater in the Bohai Sea and Yellow Sea could form oil-degrading bacteria mainly composed of *Alcanivorax*, which had great potential for oil pollution remediation.

## 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/>

### **IIT-R RESEARCHERS DEVELOP BIO-DEGRADABLE SOLUTION**

Researchers at IIT-Roorkee claimed to have developed a biodegradable and cost-effective material to help mitigate oil spill pollution in the ocean. The solution involves a spongy sheet made from cellulose of agricultural waste, which separates oil from water. The oil on the sea surface can then be removed using a suction pump. *The Times of India* / [Read more](#)

### **MINERAL NANOPARTICLES COULD POTENTIALLY ACT AS NANOZYME MIMICS, ASSISTING FUNGI IN BREAKING DOWN ORGANIC POLLUTANTS**

Employing the model white rot fungus *Phanerochaete chrysosporium*, Le Chang and Guanghui Yu investigated the degradation of 4,4'-dichlorobiphenyl (PCB15) with and without the presence of magnetite nanoparticles. Notably, the addition of these nanoparticles substantially bolstered the breakdown of PCB15 by *Phanerochaete chrysosporium*, with degradation rates reaching 42% and 84% after 3 and 5 days of co-cultivation, respectively. *Phys.Org* / [Read more](#)

### **UNVEILING THE POTENTIAL OF A NOVEL MARINE BACTERIUM BACILLUS ENCLENSIS AGM\_CR8 FOR CR (VI) POLLUTION REMEDIATION IN AN URBAN CREEK: AN INTEGRATED MOLECULAR IMAGING AND GENOMICS APPROACH**

We present *Bacillus enclensis* AGM\_Cr8, a gram-positive marine bacterium was isolated from Versova Creek, Mumbai, India. It could tolerate extreme chromate stress (>3000 mg/l) and showcased a MIC exceeding 5000 mg/l. SEM revealed the presence of Cr (VI) on

## SCIENCE & TECHNOLOGY (CONTINUED)

bacterial surface and secretion of extracellular polymeric substances, aiding in Cr (VI) sequestration on extracellular structures. Papers SSRN / [Read more](#)

### REMEDICATION OF PB(II) AND CD(II) IN POLLUTED WATERS WITH CALCIUM THIOGLYCOLATE–MODIFIED STRAW BIOCHAR

The pollution of water bodies by heavy metals (HMs) such as Pb(II) and Cd(II) poses a serious environmental risk. Herein, rice straw biochar (RBC) modified with calcium thioglycolate was used to remove Pb(II) and Cd(II) from aqueous solutions. X-mol / [Read more](#)

### 'WE ARE JUST GETTING STARTED': THE PLASTIC-EATING BACTERIA THAT COULD CHANGE THE WORLD

In 2001, a group of Japanese scientists made a startling discovery at a rubbish dump. In trenches packed with dirt and waste, they found a slimy film of bacteria that had been happily chewing through plastic bottles, toys and other bric-a-brac. As they broke down the trash, the bacteria harvested the carbon in the plastic for energy, which they used to grow, move and divide into even more plastic-hungry bacteria. The Guardian / [Read more](#)

## 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-ems-training-catalogue-2019.html>
- **FRANCE - CEDRE** - [https://wwz.cedre.fr/en/content/download/10912/file/CalendrierFormation2023\\_EN.pdf](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](https://www.ahmpnet.org/events/event_list.asp)
- **USA - ELASTEC FALL WORKSHOP, NEW HARMONY, INDIANA, 3-5 OCTOBER 2023. MORE INFO**
- **CANADA - 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](mailto: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](mailto:John.mcmurtrie@spillcontrol.org)

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

### OCTOBER 2023

- **USA – Workshop - Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023**
- **WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Environmental Effects of Oil in the Sea”, Webinar 21, 3<sup>rd</sup> October, 2023**
- **MALAYSIA – OSRL – “Subsea Forum in Malaysia”, 4th October, KL**

## UPCOMING EVENTS (CONTINUED)

- WEBINAR from ALGA – “Natural Source Zone Depletion (NSZD) in reality and practice”, 5<sup>th</sup> October, 12.00 pm to 1.00 pm AEST
- FRANCE – Immersion Meeting at CEDRE – “Chemical Risk Management at Sea”, 6<sup>th</sup> October 2023
- WEBINAR – OSRL – “Risk Assessment and Contingency Planning” 10<sup>th</sup> 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”, 18<sup>th</sup> October 2023, 1500-1630 BST
- UK – ITAC Annual Meeting, 24<sup>th</sup>-26<sup>th</sup> October, National Oceanography Centre, Southampton
- CANADA – Econext 2023 Conference, St. Johns, NL, 26<sup>th</sup> October 2023
- BRAZIL – International Seminar – ISCO & Ocean Pact Brazil “Lessons Learned for Brazil & Latin America, Preparedness, Response & Crisis Management, Case Studies”, Rio de Janeiro, 27<sup>th</sup> October 2023

### NOVEMBER 2023 & ONWARDS

- UK – UK & Ireland Spill Association Conference – Annual Conference, Dinner & Awards, 1-2 November, Nottingham
- CANADA – Forum from Transport Canada – “Fall 2023 Oceans Protection Plan (OPP), Pacific Dialogue Forum”, 2<sup>nd</sup> November 2023, 8.40-9.40 PDT
- ITALY – ECOMONDO Exhibition & Conference, Rimini, 7-12 November 2023
- UK – IOPC Funds – November 2023 Meeting of the Governing Bodies, 7<sup>th</sup> to 10<sup>th</sup> November. IMO HQ London
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Human Health Effects of Oil in the Sea”, Webinar 22, 7<sup>th</sup> November 2023
- USA – Clean Gulf Conference & Exhibition, “Prepare, Respond and Recover”, San Antonio, TX, 7-9 November 2023
- INDIA – SPILLTECH Conference & Exhibition, 8<sup>th</sup> to 9<sup>th</sup> November 2023, New Delhi
- WEBINAR – OSRL – “Equipment and Resources for Effective Response”, 14<sup>th</sup> November, 1400-1500 GMT
- WEBINAR from UK & Ireland Spill Association – “Early lessons to be learned from the Poole Harbour incident”, 15<sup>th</sup> November 2023, 1500-1630 GMT
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Round Table Discussion to provide Summary and Recommendations”, Webinar 23, 5<sup>th</sup> 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 6<sup>th</sup> December, 1200-1245 GMT
- WEBINAR – OSRL – “Training, Exercises and Continuous Improvement” 12<sup>th</sup> 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](#).

## 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](#) [List of Exhibitors](#)

### 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 IOSC 2023

## MESSAGES FROM EVENT ORGANISERS (CONTINUED)

**International Oil Spill Conference (IOSC) in New Orleans, May 13-16, 2024**

**IOSC has Extended the Space Selection Deadline.** IOSC 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.

#IOSC2024 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 IOSC 2024** Be sure to follow IOSC on [Facebook](#), [Twitter](#), and [LinkedIn](#) for updates and announcements about #IOSC2024. Please contact [registration@iosc.org](mailto:registration@iosc.org) for questions or additional information. Interested in exhibiting or sponsorship? Please reach out to: [exhibits@iosc.org](mailto:exhibits@iosc.org)

## USA: CLEAN WATERWAYS 2024 – REGISTRATION

**Reminder: Registration Now Open for CLEAN WATERWAYS 2024**

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 increase by \$150 after Friday, October 27th.

[Registration information](#)

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.

## 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](mailto:john.mcmurtrie@spillcontrol.org)

## LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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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](mailto:mike@mwadigital.com)

## TECHNICAL SUPPORT

### BIMCO - LIQUID CARGO DATABASE

The information in the liquid cargo database aims at providing an easy to use guidance and reference tool, primarily for shore-side staff and for newcomers on board tankers, supplementing the relevant Conventions, Codes and supplementary guidance published by the International Maritime Organization (IMO) and is intended for use solely as a reference tool providing general information relating to the most commonly transported liquid cargoes. BIMCO / [Read more](#)

## NEW PUBLICATIONS

### THE DNV MARITIME FORECAST TO 2050 IS NOW AVAILABLE FOR DOWNLOAD!



The report takes a deep dive into shipping's decarbonization journey, providing an overview of key regulations, fuels and technologies.

[Download the Report](#)

Informa Engage / [Read more](#)

### PEMSEA SEPTEMBER E-BULLETIN

This month, we scored several milestones for the Partnerships in East Asian Seas as countries adopted the regional strategy on biofouling management. [Read the PEMSEA September E-Bulletin](#)

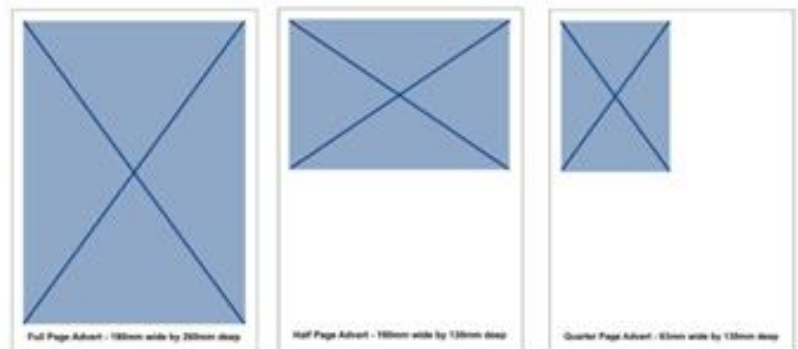
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ISCO's weekly newsletter is focused in international, regional and national news that is of interest to professionals, companies and organisations involved in oil and chemical spill control and the emerging field of CBRN incident response.

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](mailto:spillcontrol@mwadigital.com)

## 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/>

### NEW ZEALAND: OIL SPILL REPORTED OFF COAST OF BANKS PENINSULA

September 25 - Canterbury Regional Council is responding to an oil spill from a fishing vessel that ran aground on the south coast of Banks Peninsula. It said all four crew were recovered by helicopter on Sunday night.

The fishing vessel, which was aground at Red Bluff, had about 10,000 litres of diesel and 400 litres of hydraulic oil on board.



## INCIDENT REPORTS

The regional council said initial aerial observations showed oil was spilling towards Shell Bay and neighbouring bays, but it could not yet say how much.

Shell Bay was home to endangered wildlife, including the yellow-eyed penguin and the spotted shag. The regional council said it was assessing the situation and response options to safely minimise the impact of oil and debris on the environment. RNZ / [Read more](#)

### USA: OKLAHOMA - CITY OFFICIALS SAY CLEAN UP SHOULD BE QUICK AFTER OIL SPILL



*Above - An oil geyser spouted near northwest 178th street and North Portland Avenue at 10:37 AM Monday 9/25/2023. (Photo courtesy of Oklahoma City Fire Department)*

September 25 - Construction workers struck a 16-inch pipe containing crude oil Monday morning in far Northwest Oklahoma City.

The strike was near the intersection of Northwest 178th Street and North Portland Avenue. Some of the oil seeped into stormwater drains. In a social media post, the OKC Fire Department said no one was in any danger from the incident.

Derek Johnson, the environmental protection superintendent for the city, said there are environmental concerns that won't be assessed until there is a clean-up plan. "The amount of product that's released is always a worry. It might increase the time it takes to clean up. But in this case, they're doing a fantastic job with containment and collection of the product on site.

"The OKC Fire Department said crude oil is tough to get out of the environment. Johnson said clean-up could take flushing the storm drainage system and a lot of soil recovery. KOSU / [Read more](#)

### USA: MAINE - DEP INVESTIGATES CHEMICAL SPILL AT GAC FACILITY IN SEARSPORT

September 27 - The Maine Department of Environmental Protection's hazardous materials team responded to a reported chemical spill at GAC Chemical Corporation this past week, while an investigation of the incident remains underway. PBPIlot / [Read more](#)

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