



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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- Ms Mary Ann Dagleish, VP M'ship (USA)
- Mr John Wordrop (Australia)

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INTERNATIONAL & REGIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



ANNUAL INTERNATIONAL OIL SPILL EXERCISE BALEX TOOK PLACE IN THE GULF OF RIGA

The exercise aimed to test the coordinated operation of the Baltic Sea response fleet units in addressing pollution incidents at sea. It will involve 11 military and civilian vessels from eight Baltic Sea countries: Denmark, Estonia, Lithuania, Poland, Finland, Germany, Sweden, and Latvia. These vessels were equipped with specialized pollution recovery equipment. Helcom / [Read more](#)

EUROWA-2 PROJECT COMES TO A CLOSE



After 2 years and a 5 month extension, the EUROWA-2 project has drawn to a close. The project was coordinated by Sea Alarm and its aim was to improve Europe's overall preparedness for oiled wildlife emergencies, which has been achieved. EUROWA-2 was made possible thanks to co-funding from the EU Civil

ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

Carlos Sagrera Latin America (Spanish speaking)
Matthew Sommerville UK London
John Noble UK London & South'ton

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YOU ARE INVITED TO JOIN THE ISCO
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<https://www.linkedin.com/groups/4016064/>

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<https://www.facebook.com/groups/388528312842431>

WHATSAPP GROUP FOR STUDENTS, TRAINEES & APPRENTICES

Here is the link for joining this group –
<https://chat.whatsapp.com/KMxdW7lEal79namyNibVqq>

ADVANCE YOUR CAREER BY GAINING PROFESSIONAL RECOGNITION Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment. All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO. The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications. You can apply for MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

PRINCESS EMPRESS INCIDENT – LATEST INFORMATION FOR CLAIMANTS PUBLISHED

The Shipowners' Club and the IOPC Funds are pleased to report in a joint statement that the first claims for compensation submitted to the Claims Submission Office have been reviewed by the Club and IOPC Funds' experts and the process for the payment of compensation to eligible payments will commence on 5 September 2023. IOPC Funds / [Read more](#)

IMAREST LAUNCHES NEW WEBSITE

The Institute of Marine Engineering, Science and Technology has today unveiled its new website www.imarest.org. The development is part of its commitment to supporting marine professionals across the globe. The website provides a hub of information about membership, marine education and careers, and the IMarEST communities. It also hosts the Institute's virtual library which provides members with access to latest technical papers and 130 years of the IMarEST's history. IMarEST / [Read more](#)

ISCO NEWS

THE ISCO NEWSLETTER – LOOKING FORWARDS

Your Editor recently shared his thoughts with Members of the Executive Committee. At age of 86 he is seeking to reduce his workload and, in order to broaden this appeal, his post is reproduced below in the hope of responses from readers of the ISCO Newsletter.

“Dear All, I have recently been criticised for being resistant to offers of help with the ISCO Newsletter production and felt it was time to put my thoughts on the matter down on paper.

The role of Editor does require an ability to empathise with the interests of members and readers. For this reason the role of Editor will have to be filled by someone who has experience and knowledge of our industry.

Mike Watson is keen to help with the formatting and mechanics of actually sending out the newsletter but does not have any practical experience of the industry. I will be having some further discussions with Mike in the near future.

Currently the Newsletter covers –

- **International & Regional News** – Here we try to keep readers up to speed with the latest initiatives from IMO and UNEP, with particular emphasis on matters of interest to our readers. We also include news items from our Members and Industry Partners (people like Cedre, ATRAC, MOIG OHMSETT, Sea Alarm, IOPC Funds, etc.) that are of international relevance. Also interesting news from internationally oriented organisations including ITOPF, IPIECA, EUROWA, GEF, BIMCO, IGP&I, ISU, MEPSEAS, OCIMF, OSPAR, EMSA, HELCOM, MEMAC, OSPAR, PEMSEA, REMPEC, etc.
- **ISCO News** – News about current ISCO activities and new developments contributed by IE and EC members.
- **News from ISCO Members** – Another benefit for our Corporate Members provides a facility where they announce their new products, services, technical developments, etc.
- **News from Around the World** – Bearing in mind that the ISCO Newsletter goes out to subscribers in about 60 countries I think it is important to relay relevant news about activities, initiatives, etc. where readers can hear about things going on in their own countries
- **People in the News** – New appointments, special awards, etc. concerning people and organisations of significance in our industry
- **Obituaries** – Death notices – ISCO members and individuals who had significant roles in ISCO's field of interest
- **Regular Features** – Contributions currently provided by Dr Merv Fingas and Dr Larissa Montas
- **Science & Technology** – New technical developments of interest to our community
- **Training Courses** – Gives links for info about training courses from leading course providers

ISCO NEWS (CONTINUED)

- **Upcoming Events** – Summary of upcoming webinars, conferences, and other events. Linked to ISCO website page <https://spillcontrol.org/upcoming-events/>
- **Messages from Event Organisers** – Press releases and updates from Event Organisers
- **Business Opportunities** – Of special interest to our Corporate Members
- **Other Publications** – A facility that enables our readers to access many other publications of interest to our community
- **New Publications** – Announcements about new publications of interest to our community
- **Incident Reports** – Worldwide reports on significant pollution incidents, losses overboard of shipping containers, etc.

A SUGGESTED WAY FORWARD

Your current Editor cannot continue producing the Newsletter for ever and it is unlikely that we will find a volunteer to take on such an onerous task.

One way forward would be to divide up the work. There must be a few retired response contractors and other experienced people with time on their hands, a desire to keep in touch with the industry and make a worthwhile contribution by doing something that will be useful for our community.

We could start off by asking one or more individuals to identify with one or more newsletter content items where they feel they could make a contribution. The requirement would be to compile ready-to-print content items and submit them on a regular basis.

The work involved could represent a great opportunity to get involved in something that is both interesting and a personal source of satisfaction for you.

Your current editor will provide help – details of news sources, contacts, forwarding of relevant links, and any other support needed.

If you are interested or know of someone who could be interested please contact john.mcmurtrie@spillcontrol.org

NEWS FROM ISCO STUDENT MEMBERS

FROM ISCO STUDENT GROUP LEADER KAYODE PETER BALOGUN

My last message sent to Student Members via WhatsApp was wishing all the student members who applied for IOISC Scholarship a success in the selection process of the Scholarships as we hope to hear a good news this September, 2023

NEWS FROM AROUND THE WORLD

AUSTRALIA: INDEPENDENT PANEL RECOMMENDS 'NATURE POSITIVE' RESPONSE TO SIGNIFICANT BIODIVERSITY RISK IN NSW

August 30 - An independent review panel (Panel) has found that the Biodiversity Conservation Act 2016 (NSW) (BC Act) is not meeting its primary purpose to maintain a healthy, productive and resilient environment, and is never likely to do so. The Panel has made a number of recommendations to the NSW Government. Mondaq / [Read more](#)

AUSTRALIA: STATUTORY REVIEW OF BIODIVERSITY CONSERVATION ACT 2016 (NSW)

August 31 - Damning Findings from Review of Biodiversity Conservation Act - The findings from the 5-year statutory review of the Biodiversity Conservation Act 2016 (NSW) (BC Act) are in, and it doesn't make for happy reading.

Pursuant to section 14.11(1) of the BC Act, the Minister is to review this Act to determine whether the policy objectives of the Act remain valid and whether the terms of the Act remain appropriate for securing those objectives.

The short answer from this statutory review is that they do not. Lead Independent Reviewer Dr. Ken Henry AC states that "it is clear to the Review Panel that the operative provisions of the Act are incapable of supporting its objectives".

AUSTRALIA: PAUL TURNER AWARD

September 4 - The 2023 Paul Turner Award will commemorate the contribution of one of Western Australia's respected industry members, Paul Turner, who passed away in November 2010.

The Award will be presented to a person whose research project or assignment is likely to contribute to the contaminated sites industry in Western Australia, thereby demonstrating aptitude to practice in the industry. Nominations for the Paul Turner Award will close on Monday 18th September. Land & Groundwater / [Read more](#)

CANADA: CASE LAW UPDATE ON THE INTERSECTION OF CREDITOR CLAIMS AND ENVIRONMENTAL OBLIGATIONS

September 6 - The Supreme Court of Canada's Redwater¹ decision, rendered in January 2019, provided clarification on the treatment of environmental clean-up obligations in context of insolvency proceedings. In Redwater, a summary of which can be found here, the Court held that proceeds flowing from the sale of oil and gas assets must be used to satisfy regulatory abandonment and reclamation obligations before any distribution can be made to secured creditors. Mondaq / [Read more](#)

CANADA: CLEANING UP LAKE ONTARIO: THE FINAL STAGE BEGINS FOR THE RANDLE REEF REMEDIATION PROJECT IN HAMILTON HARBOUR

September 6 - Randle Reef partners announce the award of a construction contract to start Stage 3 of the Randle Reef Contaminated Sediment Remediation Project - Today, the Honourable Filomena Tassi, Minister responsible for the Federal Economic Development Agency for Southern Ontario, on behalf of the Minister of Public Services and Procurement, and the Minister of Environment and Climate Change, joined by local Members of Parliament and Ian Hamilton, President and CEO of HOPA Ports, announced the start of Stage 3 of the Randle Reef Contaminated Sediment Remediation Project. Canada en / [Read more](#)

CHILE: MARITIME AUTHORITY HELD POLLUTION COMBAT EXERCISE IN QUINTERO BAY

September 4 - An exercise to combat pollution was carried out by the Maritime Authority of Quintero, in the bay of the commune, with the purpose of verifying and perfecting the procedures to face this type of emergency at sea. The drill, which was attended by personnel from the company COPEC and the Municipality of Quintero, also included an evacuation exercise of an injured person and a simulation of a fire of the fuel recovery material, which had the participation of firefighters of the commune.

As explained by the Captain of the Port of Quintero, Captain of Fragata Litoral Héctor Salgado, "in the exercise an oil spill was simulated from a motor ship that was docked at the maritime terminal "El Bato" (Copec), for which we activated the contingency plans of our Local Center to Combat Pollution Directemar / [Read more](#)

DENMARK: PROGRAMME FOR NOVANA 2023-2027 HAS BEEN PUBLISHED

September 7 - The Danish Environmental Protection Agency continues and strengthens the monitoring of nature and environment with the approval of the National Monitoring Programme for Aquatic Environment and Nature (NOVANA) for 2023-27. The Danish Environmental Protection Agency's monitoring efforts have officially received a new programme, as the NOVANA programme for 2023-27 has just been approved.

The NOVANA programme contains detailed descriptions of the various surveys carried out in the monitoring sector, including animal and plant species. Data from monitoring are an essential part of the basis for nature and river basin management plans in Denmark, and they also contribute to Denmark's directive-bound reporting to the EU. MST.dk / [Read more](#)

FINLAND: GREAT CORMORANT POPULATION GROWS IN FINLAND AFTER 4 YEARS



Photo courtesy of Heikki Kotiranta/SYKE

August 31 - About 27,920 Great Cormorant nests were counted in Finland in summer 2023, said the Finnish Environment Institute (SYKE) in a press release on Wednesday.

Finland's nesting population increased by 14 per cent (about 3,460 nests) from the previous summer.

Since 2015, the number of Great Cormorant nests has varied between about 24,000 and 27,000. At regional level, however, the annual variations in the number of nests are large.

The growth of the Great Cormorant population concentrated in the southern areas of the Bothnian Sea and the western Gulf of

Finland, with an increase of approximately 2,500 and nearly 2,300 nests respectively. In Kvarken, on the other hand, the number of nests decreased for the fifth consecutive year and there were approximately 440 nests less than previous summer.

Daily Finland / [Read more](#)



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27 October 2023

SOUTH KOREA SUPPORTS PHL, TIMOR-LESTE IN TACKLING MARINE PLASTIC POLLUTION

August 31 - THE Republic of Korea (ROK/South Korea) has provided \$9 million in aid to the Philippines and Timor-Leste to fight marine plastics pollution in the said countries.

The six-year "Reducing Marine Plastics in the East Asian Seas Region" initiative aims to improve the management of marine plastics in two countries through science-based governance, innovative solutions to promote circular economy, regular beach monitoring on marine plastics, relevant training, and community awareness drive. Business Mirror / [Read more](#)

MALTA: PROPOSED AMENDMENTS TO THE EXCLUSIVE ECONOMIC ZONE ACT AND ANCILLARY LAWS

September 4 - Bill No. 62 of the Fourteenth Legislature, 'the Exclusive Economic Zone and Various Laws (Amendment) Bill' (the "Bill"), which is currently being discussed in Parliament, proposes various amendments to the EEZ Act and ancillary legislation. The Bill, if approved by Parliament, will require that the economic exploration or exploitation of the EEZ be subject to the issuance of a licence authorising such exploration or exploitation (with the said exploration or exploitation being subject to the requirements or conditions of any such licence).

The Bill proposes amendments to various other laws, either by extending their applicability to artificial islands, installations, structures, equipment, or devices found in the EEZ, or alternatively by catering for the possibility of regulations to be issued under specific laws for the purpose of regulating their applicability to the EEZ. The laws being amended include customs, fiscal, health, safety, immigration, business promotion, fishing, transportation, intellectual property, employment, and environmental laws. Mondaq / [Read more](#)

ROMANIA: DRS PACKAGING TO GO LIVE SOON

September 6 - The implementation of the deposit return system ("DRS") for bottled water, soft drinks, beer, cider, wine and spirits ("DRS products") in disposable plastic, glass or metal packaging of between 0.1l and 3l, will kick-off on 30 November 2023. As of that date, Romanians will be able to return the packaging of these beverages to the reverse vending machines provided by retailers or producers, as per the legal provisions. Mondaq / [Read more](#)

UK: SINGLE-USE PLASTIC BAN IN ENGLAND

August 11 - Trading Standards is reminding businesses, such as takeaways, sandwich bars, care homes and retailers who supply certain single use plastic items, that a ban comes into force this October and they should start thinking now about alternatives and where to source them from. The Government has announced a ban on a wide range of plastic items that is expected to come into effect from 1 October 2023.

It means that from October, businesses across England will not be able to supply certain single use plastic items to the end user. The ban includes all single use plastic cutlery, trays, plates, bowls, and balloon sticks, as well as banning the use of certain types of polystyrene cups and food containers used to supply food which is ready to consume. Somerset.Gov.UK / [Read more](#)

UK: A CURATED LIST OF GREAT TALKS AT CONTAMINATION AND LAND REMEDIATION EXPO

August 31 – Speakers will include Members of the UK Eire Spill Association. UK Eire Spill Association / [Read more](#)

UK: UK AND IRELAND SPILL ASSOCIATION TO EXHIBIT AT THE CONTAMINATION & LAND REMEDIATION EXPO

September 3 - UK AND IRELAND SPILL ASSOCIATION are excited to announce that they will be exhibiting at the Contamination & Land Remediation Expo 2023. We are exhibiting on stand J51 and will be there to provide advice on spill and incident response and the risks from emerging pollutants including alternative fuels

Taking place on 13-14 September 2023, at the NEC, Birmingham, the Contamination & Land Remediation Expo event is set to be bigger and better than ever; serving as the heartbeat of the contamination ecosystem in the UK. UK Eire Spill Association / [Read more](#)

UK: MARITIME & COASTGUARD AGENCY COUNTER POLLUTION TRAINING COURSES

September 5 - Information on training courses from the Counter Pollution and Salvage team including who should attend, course content and objectives, and how to apply. Gov. UK / [Read more](#)

USA: EPA & THE CORPS HAVE PUBLISHED THEIR 10TH ATTEMPT TO DETERMINE THE REACH OF THE CLEAN WATER ACT. LITIGATION IS CERTAIN TO FOLLOW.

September 1 - Ahead of schedule, yesterday EPA and the US Army Corps of Engineers published their tenth attempt to specify the reach of the Federal Clean Water Act. The only question now is will its opponents file amended complaints in the paused court proceedings over the ninth attempt, will they file new lawsuits, or will we see both. Mondaq / [Read more](#)

NEWS FROM AROUND THE WORLD (CONTINUED)

USA: UNIFIED COMMAND TO ADDRESS CLEANUP OF WATERWAYS AFTER FIRE

September 4 - State and federal agencies have established a unified command that will oversee the cleanup of Lahaina Harbor and other waterways impacted by the West Maui wildfire. Emergency Support Function No. 10 Western Maui Wildfire Unified Command consists of the U.S. Coast Guard, Hawaii Department of Health and the Hawaii Department of Land and Natural Resources.

Its mission will be overseeing the assessment, removal and disposal of incident-generated hazardous materials, response to actual and potential oil discharges, and clearance of marine debris and sunken or displaced vessels from designated waterways, including Lahaina Harbor, according to a news release. Maui News / [Read more](#)

USA: EPA ISSUES FINAL RULE DIMINISHING FEDERAL JURISDICTION OVER WETLANDS

September 5 - On Aug. 29, 2023, the U.S. EPA and Army Corps of Engineers (USACE) issued the final rule amending the definition of "waters of the United States" (WOTUS) under the Clean Water Act.¹ This revised definition follows the Supreme Court's May 25, 2023 decision in *Sackett v. EPA*, 598 U.S. ___ (2023), where the court determined that WOTUS must have a "continuous surface connection" to a "traditionally navigable water" to be subject to federal oversight.²

The new rule removes the "significant nexus" standard that served as the basis for the EPA's January 2023 WOTUS definition. Under the January 2023 definition, federal waters were any waters that had a significant impact on the chemical or biological integrity of a "traditionally navigable water." Mondaq / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

September 11 – Please click on the links below to download and read the latest news from NOAA OR&R

[A Coordinated and Collaborative Response to Hurricane Idalia](#)



On August 28th, the National Ocean Service (NOS) Incident Management Team (IMT) activated ahead of Hurricane Idalia. The NOS IMT, led by OR&R's Disaster Preparedness Program (DPP) with representatives from across NOS program and staff offices, coordinated response efforts and collected situational awareness. Team members reported information pertaining to any impacts to mission and personnel as well as infrastructure damage.

[Marine Debris Program participates in North America Trilateral Roundtable on Ghost Gear](#)

On August 30, 2023, NOAA Marine Debris Program (MDP) Director, Nancy Wallace, participated in a Trilateral Government Roundtable on Ghost Gear, "Advancing Cooperation to Address Ghost Gear in North America." Forty-three representatives from the governments of Canada, Mexico, and the United States attended this virtual roundtable. The [Global Ghost Gear Initiative](#) (link is external), an MDP partner and grantee through the U.S.-Mexico-Canada Agreement funding, hosted the event.

[Virtual Public Meeting of the Interagency Marine Debris Coordinating Committee on Sept. 26th](#)

On September 26, 2023, the Interagency Marine Debris Coordinating Committee (IMDCC) will hold a virtual public meeting, from 2 p.m. to 3 p.m. ET. The public meeting will include a presentation on the Report on Microfiber Pollution required by Section 132 of the Save Our Seas 2.0 Act, as well as a presentation on the process to create new IMDCC recommendations on addressing marine debris.

[Settlement Finalized for the Maxus Energy Corp. Bankruptcy Case, Passaic River, NJ](#)

On June 1, 2023, the District Court for the District of Delaware approved of a [Settlement and Release](#) entered into by the Maxus Liquidating Trust ("Trust") and YPF S.A., YPF International S.A. (f/k/a YPF International Ltd.), YPF Holdings, Inc., and YCLH Holdings, Inc.

[NOAA Coordinates California Ocean Litter Strategy Workgroups](#)

On August 30th, the NOAA Marine Debris Program (MDP) wrapped up a month of partner-led virtual workgroup meetings to discuss the California Ocean Litter Strategy (OLS). The meetings brought together over 75 partners from across the state and included a diverse set of sectors, including state agencies, nonprofits, private organizations, and academia.

VIETNAM BACKED FOR OIL SPILL PREPAREDNESS CONVENTION ACCESSION

August 31 - The development of a roadmap for Viet Nam's accession to the International Convention on Oil Pollution Preparedness, Response and Co-operation (OPRC) was the aim of a National Workshop in Hanoi (22-25 August). Viet Nam's accession to the Convention would mark a significant development in enhancing oil spill preparedness and response in the ASEAN region. Mirage News / [Read more](#)

NEWS FROM ISCO MEMBERS – AN ISCO MEMBERSHIP BENEFIT

Corporate Members of ISCO can 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

NEWS FROM ISCO MEMBERS – AN ISCO MEMBERSHIP BENEFIT (CONTINUED)

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.

LAMOR SECURED THE LIFTING OPERATION OF A SUNKEN BULKER IN GIBRALTAR

In August 2022, OS 35 bulker 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.

The sunken bulker had broken into two sections in storms earlier this year. The raising of the hull sections out of the water was expected to release residues, including heavy oil residues. Therefore, we were contracted to be on site throughout the operation, securing the lifting with our OSR technologies as each situation required. Maritime Journal / [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.

Last week 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.

This in-person workshop was sponsored by NOAA's Office of Response and Restoration (OR&R) and the Disaster Preparedness Program, and hosted by the University of New Hampshire's Coastal Response Research Center. We explored what is known and uncertain about nurdles and what occurs when they are spilled into marine and coastal environments.

A Report on the Workshop will be given 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.

216. Factors that affect water column hydrocarbon concentrations have minor impacts on microbial responses following simulated diesel fuel spills

Ortmann A.C., Cobanli S.E., Wohlgeschaffen G., Poon H.Y., Ryther C., Greer C.W., Wasserscheid J., Elias M., Robinson B., King T.L. (2023) Marine Pollution Bulletin, 194, art. no. 115358, DOI: 10.1016/j.marpolbul.2023.115358

ABSTRACT: Effects of season and mixing on hydrocarbon concentrations and the microbial community response was explored in a series of mesocosm experiments simulating surface spills of diesel into coastal waters. Mixing of any amount contributed to hydrocarbons entering the water column, but diesel fuel composition had a significant effect on hydrocarbon concentrations. Higher initial concentrations of aromatic hydrocarbons resulted in higher water column concentrations, with minimal differences among seasons due to high variability. Regardless of the concentrations of hydrocarbons, prokaryotes increased and there were higher relative abundances of hydrocarbon affiliated bacteria with indications of biodegradation within 4 d of exposure. As concentrations decreased over time, the eukaryote community shifted from the initial community to one which appeared to be composed of organisms with some resilience to hydrocarbons. This series of experiments demonstrates the wide range of conditions under which natural attenuation of diesel fuel is an effective response.

217 Environmental petroleomics – Application of ultrahigh-resolution mass spectrometry for molecular-level understanding of the fate of spilled oils

Acter T., Son S., Kim D., Yim U.H., Barrow M.P., Shi Q., Uddin N., Kim S.
(2023) Trends in Environmental Analytical Chemistry, 40, art. no. e00212,

ABSTRACT: Molecular-level investigation of crude oil has become an essential part of oil spill research. It facilitates the assessment of oil behavior, fate, impacts, as well as the evaluation of oil spill origins, toxic substances, and the effect of such incidents. Notable oil spill incidents, such as the Deepwater Horizon, have emphasized the need for molecular-level information on spilled oil to evaluate and monitor environmental damage. In this study, the term 'Environmental Petroleomics' is defined. During the weathering of spilled oil, various effects can alter the oil's chemical composition, including evaporation, dispersion, photo-oxidation, and microbial degradation. The major toxic compounds in the spilled oil are aromatic compounds, followed by polar oxygenated aromatic compounds. Although gas chromatography-mass spectrometry (GC-MS) is an effective approach for compositional analysis of crude oil, it falls short in its ability to separate individual compounds in the weathered oil. This is particularly challenging when dealing with weathered oil enriched with polar oxygen- and sulfur-containing compounds that emerge during the weathering process. Ultra-high-resolution mass spectrometry (UHR-MS) has played a key role in the development of Environmental Petroleomics, proving effective in characterizing various polar species. This review explores the application of ultra-high-resolution mass spectrometry for oil spill research. The study concludes that the toxicity of weathered crude oils results from the photo-oxidation of crude oil molecules into highly oxygenated, water-soluble species. Prospective research in environmental petroleomics concerning the analysis of oil spills may direct its attention towards innovating novel methodologies. These could encompass high-resolution imaging of oil spills, time-resolved analysis of spill dynamics, integration of ultra-high-resolution mass spectrometry (UHR-MS) with complementary techniques, and the utilization of UHR-MS for biomarker analysis.

218. The long-term fate of saturates and biomarkers within crude oil spilled during the Baffin Island Oil Spill (BIOS) Project

Hunnie B.E., Schreiber L., Greer C.W., Stern G.A.
(2023) Marine Pollution Bulletin, 194, art. no. 115276,
DOI: 10.1016/j.marpolbul.2023.115276

ABSTRACT: The Baffin Island Oil Spill (BIOS) Project is a long-term monitoring field study conducted in the early 1980s, seeking to examine the physical and chemical fate of crude oil released into a pristine Arctic setting. During the present study, sites of the BIOS Project were revisited in 2019 for the collection of oiled intertidal and backshore sediments. These samples were analyzed for several groups of petroleum hydrocarbons including saturates (n-alkanes, branched alkanes, and alkylcycloalkanes), hopane and sterane biomarkers, and alkylbenzenes. These hydrocarbon groups were present in concentrations ranging from 1.77–1210, 0.224–51.7, 0.0643–16.9, 0.00–11.7, and 0.0171–8.60 mg/kg within individual samples, respectively. When comparing current to limited results from past BIOS studies, a representative branched alkane (phytane), and medium-chain (nC18) and long-chain (nC30) n-alkanes demonstrate extensive weathering processes, exhibiting up to 90 %, 98 %, and 77 % loss since the penultimate BIOS revisit in 2001, respectively.

219. A Quantitative Comparison of Oil Sources on Shorelines of Prince William Sound, Alaska, 17 Years After the Exxon Valdez Oil Spill

Short J.W., Maselko J.M.
(2023) Archives of Environmental Contamination and Toxicology, 85 (2), pp. 140 - 146,
DOI: 10.1007/s00244-023-01019-9

ABSTRACT: Environmental damage caused by accidental discharges of pollutants depends in part on the degree of prior contamination, in that increased pollution of an already heavily contaminated region will usually be considered less detrimental than equivalent pollution of a pristine region. Quantitative comparisons of specific pollution events with the extent and severity of prior contamination are rare, owing to difficulties in identifying and assessing contaminants remaining from prior pollution events, and in some cases contaminants from natural sources. The 1989 Exxon Valdez oil spill (EVOS) presents an unusual opportunity to quantitatively evaluate residual contaminants from petroleum sources on shorelines of Prince William Sound (PWS), Alaska. Here, we evaluate surface oil contamination from Monterey Formation petroleum-derived residues (released into PWS from ruptured storage tanks during the 1964 earthquake) on 200 shoreline segments selected at random within the EVOS spill path. We compare

these results with previously estimated contamination from the EVOS and from other human activities. Our results indicate that residual shoreline contamination from the EVOS is more than ~ 50% greater than the sum total from human activity sites, that residual contamination by Monterey Formation sources is negligible in comparison to that from the EVOS, and that most of the shorelines in PWS were as close to pristine prior to the EVOS as is likely to be found anywhere else worldwide.

220. Source apportionment of polycyclic aromatic hydrocarbons in New York/New Jersey Harbour sediment, AI

Hello M., Burris D.R., Chitsaz M., Rodenburg L.A.
 (2023) Water and Environment Journal, 37 (3), pp. 527 - 537,
 DOI: 10.1111/wej.12856

ABSTRACT: Data on polycyclic aromatic hydrocarbons (PAHs) measured in surface sediment and cores in the New York/New Jersey Harbour under the Contamination Assessment and Reduction Project (CARP) was examined via Positive Matrix Factorization (PMF), which revealed six sources. Two represented the higher and lower molecular weight (MW) fractions of coal tar and/or creosote (pyrogenic) sources and explained 49% of PAH mass in the sediment samples. Two sources were related to uncombusted petroleum (petrogenic) sources, such as heavy fuel oil and crude oil, and explained 30% of PAH mass. The final two sources were related to combustion (pyrogenic) sources such as gasoline- and diesel-fuelled vehicles and explained 21% of the PAH mass. Sediment cores revealed that Σ22PAH increased from the pre-industrial period until about 1980 and then decreased because of efforts to control water pollution via mechanisms such as the Clean Water Act.

221. Comprehensive Two-Dimensional Gas Chromatography in Petroleum Derived Samples: A Review on Advances in Source and Weathering Studies of Spilled Oil

Corrêa A.M., Sousa J.M., Leal K.Z., Bernardes M.C.
 (2023) Critical Reviews in Analytical Chemistry,
 DOI: 10.1080/10408347.2023.2250858

ABSTRACT: Since its introduction comprehensive two-dimensional gas chromatography (GC × GC) has been widely applied to analyze complex samples due to its enhanced peak capacity and selectivity, thereby increasing the number of identifiable peaks and improving coelution issues. Even though it is still undergoing development, GC × GC provides many advantages in the analysis of petroleum-derived samples, whether in reservoir geochemistry applications or in environmental studies associated with spilled oils. In general, it facilitates more thorough fingerprinting and compositional evaluation. In environmental studies, it helps enhance understanding of weathering processes and the environmental behavior of hydrocarbons, as its chromatographic retention indices can robustly estimate liquid vapor pressures, aqueous solubility and other physical chemical properties. This review presents a brief history of GC × GC instrumentation, discussing recent and significant advances in petroleum applications, from data handling techniques to reservoir geochemistry and environmental forensics, as well as some specific advantages achieved and certain limitations that continue to be encountered.

222. Application of Ion Mobility Spectrometry–Mass Spectrometry for Compositional Characterization and Fingerprinting of a Library of Diverse Crude Oil Samples

Cordova A.C., Dodds J.N., Tsai H.-H.D., Lloyd D.T., Roman-Hubers A.T., Wright F.A., Chiu W.A., McDonald T.J., Zhu R., Newman G., Rusyn I.
 (2023) Environmental Toxicology and Chemistry,
 DOI: 10.1002/etc.5727

ABSTRACT: Exposure characterization of crude oils, especially in time-sensitive circumstances such as spills and disasters, is a well-known analytical chemistry challenge. Gas chromatography–mass spectrometry is commonly used for “fingerprinting” and origin tracing in oil spills; however, this method is both time-consuming and lacks the resolving power to separate co-eluting compounds. Recent advances in methodologies to analyze petroleum substances using high-resolution analytical techniques have demonstrated both improved resolving power and higher throughput. One such method, ion mobility spectrometry–mass spectrometry (IMS–MS), is especially promising because it is both rapid and high-throughput,

with the ability to discern among highly homologous hydrocarbon molecules. Previous applications of IMS–MS to crude oil analyses included a limited number of samples and did not provide detailed characterization of chemical constituents. We analyzed a diverse library of 195 crude oil samples using IMS–MS and applied a computational workflow to assign molecular formulas to individual features. The oils were from 12 groups based on geographical and geological origins: non-US (1 group), US onshore (3), and US Gulf of Mexico offshore (8). We hypothesized that information acquired through IMS–MS data would provide a more confident grouping and yield additional fingerprint information. Chemical composition data from IMS–MS was used for unsupervised hierarchical clustering, as well as machine learning–based supervised analysis to predict geographic and source rock categories for each sample; the latter also yielded several novel prospective biomarkers for fingerprinting of crude oils. We found that IMS–MS data have complementary advantages for fingerprinting and characterization of diverse crude oils and that proposed polycyclic aromatic hydrocarbon biomarkers can be used for rapid exposure characterization. *Environ Toxicol Chem* 2023;00:1–14.

223. Impact and Remediation of Petroleum Hydrocarbon Pollutants on Agricultural Land: A Review

Mohanta S., Pradhan B., Behera I.D.
(2023) *Geomicrobiology Journal*,
DOI: 10.1080/01490451.2023.2243925

ABSTRACT: Petroleum hydrocarbons, which are organic molecules consisting of carbon and hydrogen, are found in crude oil. Due to human activities like oil spills, leaking storage tanks, and transportation accidents, they are pervasive environmental toxins. This contamination can have negative consequences on the ecosystem, including soil, water, and air pollution, and agricultural land is not immune. There are several variables that can affect how petroleum hydrocarbons affect agricultural land, including the particular hydrocarbon, the properties of the soil, and the current climatic circumstances. The porosity, permeability, and water-holding capacity of soil have been influenced by petroleum hydrocarbons. This might result in soil compaction, decreased infiltration, and higher runoff, affecting agricultural land production. Hydrocarbons can also impair soil aeration, resulting in anaerobic conditions that can harm the soil microbiome and hinder plant development. Petroleum hydrocarbons can change soil's pH and nutrient availability, which can affect its chemical characteristics. Through modifications to microbial activity, diversity, and composition, petroleum hydrocarbons can affect the soil's biological characteristics. Reduced soil fertility and production may result from this. The kind of hydrocarbon, the properties of the soil, and the type of crop are only a few of the factors that affect how petroleum hydrocarbon pollution affects agricultural productivity. Some crops are significantly more susceptible to hydrocarbon contamination than others, which can impact their yield. To limit the spread of petroleum hydrocarbon contamination, a number of physicochemical strategies have been used to the contaminated areas, but this has resulted in significant chemical consumption, high treatment costs, and the production of secondary pollutants that harm the environment. The biological remediation method, on the other hand, makes use of microorganisms or plants to break down or remove toxins from the soil. This review articles focus on the effects of petroleum hydrocarbon pollution on agricultural land and elaborates the remediation methods that may be applied to lessen these effects.

224. Changes in Temperature Alter the Toxicity of Polycyclic Aromatic Compounds to American Lobster (*Homarus americanus*) Larvae

Philibert D., Marteinson S., de Jourdan B.
(2023) *Environmental Toxicology and Chemistry*,
DOI: 10.1002/etc.5719

ABSTRACT: Polycyclic aromatic compounds (PACs) present in the water column are considered to be one of the primary contaminant groups contributing to the toxicity of a crude oil spill. Because crude oil is a complex mixture composed of thousands of different compounds, oil spill models rely on quantitative structure–activity relationships like the target lipid model to predict the effects of crude oil exposure on aquatic life. These models rely on input provided by single species toxicity studies, which remain insufficient. Although the toxicity of select PACs has been well studied, there is little data available for many, including transformation products such as oxidized hydrocarbons. In addition, the effect of environmental influencing factors such as temperature on PAC toxicity is a wide data gap. In response to these needs, in the present study, Stage I lobster larvae were exposed to six different understudied PACs (naphthalene, fluorenone, methylnaphthalene, phenanthrene, dibenzothiophene, and fluoranthene) at three different relevant temperatures (10, 15, and 20 °C) all within the biological norms for the species during summer when larval releases occur. Lobster larvae were assessed for immobilization as a sublethal effect and mortality following 3, 6, 12, 24, and 48 h of exposure. Higher temperatures increased the rate at which immobilization and mortality were observed for each of the compounds tested and also altered the predicted critical target lipid body burden, incipient median lethal concentration,

and elimination rate. Our results demonstrate that temperature has an important influence on PAC toxicity for this species and provides critical data for oil spill modeling. More studies are needed so oil spill models can be appropriately calibrated and to improve their predictive ability. *Environ Toxicol Chem* 2023;00:1–11.

225. How weathering might intensify the toxicity of spilled crude oil in marine environments

Ozhan K.
(2023) *Environmental Science and Pollution Research*
DOI: 10.1007/s11356-023-29368-x

ABSTRACT: Crude oils are highly complex mixtures containing many toxic compounds for organisms. While their level of toxicity in a marine environment depends on many parameters, one of the main factors is their composition. After oil spills, their compositions are significantly changed, so it changes the toxicity. In this study, different weathering processes such as evaporation, photooxidation, and biodegradation were applied to crude oil to understand how composition changed over time and how this affects its toxicity on phytoplankton. In laboratory settings, three distinct water-accommodated fraction samples of crude oil were prepared, unweathered, evaporated, and weathered and were exposed to phytoplankton communities at different dilution levels. After 3 days, evaporation reduced the crude oil concentration by 47%, and the concentration of the crude oil affected by photooxidation, biodegradation, and evaporation reduced by 81%. This study also showed that even though the weathering reduced the overall amount of crude oil substantially, its toxicity increased significantly. In the microcosm experiments, 7-day EC50 values of the unweathered oil, the evaporated oil and the weathered oil were 49.07, 21.09, and 7.16 µg/L, respectively. Different processes altered the crude oil composition, and weathered crude oil ended up with a higher fraction of high molecular weight (HMW) polycyclic aromatic hydrocarbons (PAHs). A promising relation between the increasing toxicity and HMW PAH fraction indicates that increasing the fraction of HMW PAHs might be one of the main reasons for the weathering process to cause higher crude oil toxicity.

These results could be used as a diagnostic tool to estimate the extent of weathering and toxicity of crude oil after spills.

SCIENCE & TECHNOLOGY (

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HYBRID COLLAGEN–CELLULOSE–FE3O4@TiO2 MAGNETIC BIO-SPONGES DERIVED FROM ANIMAL SKIN WASTE AND KENAF FIBERS FOR WASTEWATER REMEDIATION

Water pollution from synthetic dyes and oil spills has a significant impact on the environment and living species. Here, we developed a low-cost, environmentally friendly and easily biodegradable magnetic hybrid bio-sponge nanocomposite from renewable resources such as collagen and cellulose (Kenaf fibre cellulose–collagen, KFCC). We loaded it with magnetic bimetallic Fe₃O₄@TiO₂ (BFT) NPs to produce a photocatalyst material (KFCC-BFT) for the treatment of colored wastewater as well as a sorbent for oil–water separation. *Nature* / [Read more](#)

HYDROCARBON-EATING BACTERIA SPEED UP CONSUMPTION BY RESHAPING OIL DROPLETS

Bacteria that were exposed to the oil for longer formed thin biofilms with numerous branching dendrites. These dendritic biofilms decrease the oil–water interfacial tension causing dimples to form on the droplets, which speeds up the bacteria's consumption by expanding the interface of the oil droplet allowing more bacteria to feed simultaneously. *Chemistry World* / [Read more](#)

NEW 3D-PRINTED 'LIVING MATERIAL' COULD PURIFY WATER

Researchers at the University of California, San Diego, have developed a new environmentally friendly method for removing chemical contaminants from water bodies. They have created a new 3D-printed substance dubbed "engineered living material."

The novel material is made up of a seaweed-based polymer combined with genetically engineered bacteria.

"What's innovative is the pairing of a polymer material with a biological system to create a living material that can function and respond to stimuli in ways that regular synthetic materials cannot," said Jon Pokorski, a professor of nanoengineering at the university who co-led the research, in an official release. *Interesting Engineering* / [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

- AUSTRALIA – SPILLCON Conference & Exhibition, Brisbane, 11-15 September 2023
- WEBINAR – OSRL “Understanding the Oil Spill Landscape” 12th September, 1400-1500 BST
- UK – Environmental Services & Solutions Expo, NEC Birmingham, 13th-14th September 2023
- AUSTRALIA – SPREP/IMO/ARPEL Workshop, “Developing Oil Spill Preparedness & Response Planning In Pacific Small Islands & other Developing States”, Brisbane, 15th – 17th 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

UPCOMING EVENTS (CONTINUED)

- 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
- 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
- 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](#).

MESSAGES FROM EVENT ORGANISERS

AUSTRALIA: BRISBANE - SPILLCON 2023: 11-15 SEPTEMBER 2023 & WORKSHOP

Spillcon 2023 Exhibition Booking Site - Interactive floor plan. <https://www.spillcon.com/>
<https://mailchi.mp/64c839ee8f69/spillcon-2023-delegate-bookings-open?e=ce373d43ca>

A **Regional Workshop** has been organised by SPREP/IMO/ARPEL for the weekend immediately following Spillcon 2023. 15 - 17 September 2023 Brisbane Convention & Exhibition Centre The Regional Workshop aims to share international experience and up-to-date knowledge on key issues of oil spill preparedness and response, aimed specifically at those based in the island nations of the South Pacific Area. It will also assist in the use of a suite of environmental management and governance tools for governments as well as present the experience gathered in other parts of the world with similar characteristics. Information, including the registration form for this Regional Workshop being held on 15 - 17 September 2023 in Brisbane, will be available [here](#). Should you have any additional questions please [contact Paul Irving at SPREP](#).

Spillcon 2023 is delighted to invite attendees to a **complimentary workshop** on the afternoon of Monday 11th September. Title: Cost recovery and compensation under the international liability regime for oil pollution damage Length: 3 hours (incl. break) Level: No previous knowledge required. Instructors: IOPC Funds & IG P&I [More info](#)

Spillcon 2023 are delighted with the enthusiastic response to our Moreton Island trip scheduled for Friday 15th September. This is now fully booked and no more registrations for this particular excursion can be taken.

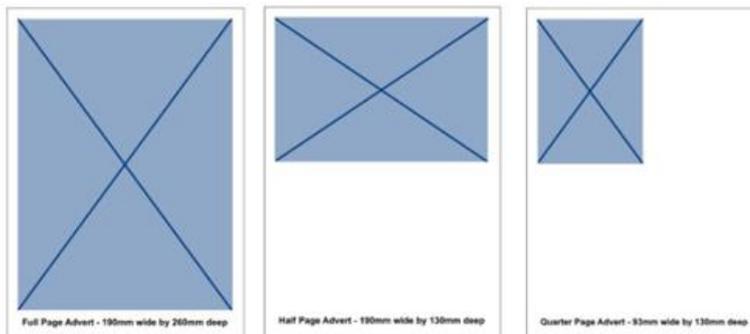
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MESSAGES FROM EVENT ORGANISERS (CONTINUED)

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

A full, printable program is now 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](#)

Now Accepting Reservations for Exhibit Space and Sponsorships for CLEAN GULF 2023 - Make an impact on buyers from oil & gas, maritime, rail, environmental companies and regulatory agencies with an exhibit space or sponsorship at the [CLEAN GULF Conference & Exhibition](#). Attendees at CLEAN GULF are looking for new products, services, and technologies to help them better prepare or respond to a hazardous spill or environmental emergency. Clean Gulf Conference & Exhibition | November 7-9, 2023 | <https://ssl.linklings.net/conferences/IOSC/> Henry B. Gonzalez Convention Center | San Antonio, TX [Registration Now Open for CLEAN GULF 2023 + Sessions Announced!](#) [More info](#) Time to Lock in Your Participation at CLEAN GULF 2023 The 2023 CLEAN GULF Conference & Exhibition is still 4 months away but only 25 exhibit spaces remain! Book your space today and secure access to 1,500+ potential buyers from oil & gas, maritime, rail, environmental companies, and regulatory agencies. These buyers will be walking the exhibit hall, actively looking for new technologies, equipment, and services to help them better prepare, respond, or recover from, an environmental emergency. [View Floor Plan](#) [See who's already exhibiting](#)

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](#)

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

USA: SAVE THE DATE FOR IOSC 2024

We're excited to be back in person for the **International Oil Spill Conference (IOSC)** in **New Orleans, May 13-16, 2024**

#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 for questions or additional information. Interested in exhibiting or sponsorship? Please reach out to: exhibits@iosc.org

USA: CLEAN WATERWAYS 2024 – CALL FOR PRESENTATIONS

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.**

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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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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

PEMSEA AUGUST 2023 E-BULLETIN

This month's bulletin highlights #PEMSEAat30 lecture series led by PEMSEA Chair Emeritus Dr. Chua Thia-Eng, the training on Plastic Analysis and Characterization Study done with LGU partners of the Marine Plastics Project, and the virtual participation of PEMSEA in the recently concluded World Water Week 2023 by highlighting its partnership with UNDP, Global Environment Facility, and ASEAN in implementing the Integrated River Basin Management Project in Southeast Asia.

PEMSEA is also in the news! Checkout our media release on the support of the Republic of Korea to tackle marine plastic pollution in the Philippines and Timor-Leste. And under news roundup, collaboration to halt biodiversity loss and positive discoveries continue to inspire action across the region and globally. [Download the E-Bulletin](#)

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/>

USA: FLORIDA - RESPONDERS CLEAN UP OIL SPILL FROM UNKNOWN SOURCE IN PORT MANATEE



Photo Courtesy of US Coast Guard – September 3 - The U.S. Coast Guard and response contractors are working on cleaning up a substantial oil spill at Port Manatee, Florida. The spill has contaminated a stretch of the waterfront within the port's main basin, and the responders have recovered over 12,000 gallons of oil and water mixture from the scene. The Maritime Executive / [Read more](#)

September 5 - The U.S. Coast Guard Sector St. Petersburg reported an oil spill at Port Manatee over the weekend and has already cleaned up 19,100 gallons of crude oil in the area. The incident was reported to the Coast Guard on Friday, and crews worked over the weekend to clean up oil and water mixture from nearby waters, including a large amount of oily debris. Herald Tribune / [Read more](#)

THAILAND: OIL SPILL AT KOH SICHANG, LAEM CHABANG

September 3 - Some 60-80 tons of Arab Light Crude leaked from faulty pipe into Koh Sichang – Laem Chabang waters, Thailand, in the evening Sep 3. Tanker was offloading crude via Single Mooring Buoy No.2 when the leak occurred. Cleansing under way, tanker is surrounded by booms. Maritime Bulletin / www.maritimebulletin.net

September 6 - Oil spill disrupts Sri Racha coast, Thai Oil Company responds swiftly - The waters off Sri Racha coast in Chon Buri were tainted by an oil spill on Sunday night, September 3. The Thai Oil Public Company Limited's refinery, located in the Sri Racha district, reported the leakage during an oil discharge from a tanker at the Single Buoy Mooring Buoy (SBM-2). Approximately 45,000 litres of crude oil seeped into the sea, causing concerns about environmental damage.

The Thai Oil Public Company Limited reacted swiftly to the incident, deploying its emergency oil spill plan in line with international standards, according to the company's press release. They took immediate action, shutting down the valves linked to the SBM-2, positioning oil booms, and using dispersants to limit the oil's spread. The Thaiger / [Read more](#)

USA: CALIFORNIA - SUNKEN TUG BOAT LEAKING FUEL IN THE SAN JOAQUIN DELTA

September 5 - In San Joaquin County, crews are working an incident over the weekend where a tug boat became submerged and was leaking diesel fuel into the San Joaquin Delta.

INCIDENT REPORTS (CONTINUED)

Both the California Office of Spill Prevention and Response (OSPR), the states lead agency for oil spill prevention, response and restoration, as well as the US Coast Guard responded. The incident occurred in the Little Potato Slough in San Joaquin County. Cleanup and salvage plans being developed. No wildlife impacts observed. ContraCosta News / [Read more](#)

PHILIPPINES: SALVAGE AND ANTI-OIL SPILL OPS ONGOING AFTER TUGBOAT SINKS IN NAGA

September 5 - Salvage and oil spill prevention operations are currently ongoing in the seas off of Naga City, Cebu after a tugboat sank there last Sunday, September 3. The Philippine Coast Guard (PCG) said they had deployed their Marine Environmental Protection Force to initiate oil spill prevention measures after motor tugboat Sugbo 2 sank. Cebu Daily News / [Read more](#)

GERMANY: POISONOUS ALGAE SHUTS DOWN POPULAR GERMAN LAKE

September 6 - Poisonous blue-green algae has shut down Rotter Lake a popular swimming spot in Germany. Location: Troisdorf, Germany. Yahoo / [Read more](#)

UK: OIL SPILL IN HERTFORDSHIRE CHALK STREAM: SOURCE DISCOVERED AND REMEDIAL ACTION TAKEN

September 6 - The Environment Agency (EA) has identified the source of an oil spill in the River Purwell, a fresh water chalk stream in Ickleford, Hertfordshire. Local residents had reported the oil slick a week ago, and it was traced back to a former flour mill site nearby. The landowner has since taken remedial action to address the spillage. Energy Portal / [Read more](#)

PUERTO RICO: SEA TURTLE HABITAT AT RISK DUE TO OIL SPILL ON MONA ISLAND

September 6 - The United States Coast Guard (USCG) had to clean up an oil spill after a 40-foot vessel washed ashore on Mona Island, Puerto Rico, spilling diesel and oil debris. USCG says due to the water and environmental impacts, the Coast Guard activated the Oil Spill Liability Trust Fund and contracted the Resolve Marine oil spill removal organization. CBS News / [Read more](#)

USA: HURRICANE IDALIA CAUSED WIDESPREAD POLLUTION IN FLORIDA'S WATERWAYS

September 9 - While Hurricane Idalia ravaged Florida's Big Bend region, rain and wind from the massive storm also caused wastewater leaks, chemical dumps and fuel spills in Tampa Bay and other storm-struck parts of the state.

At least 26,000 gallons of wastewater spills, mostly raw sewage, were reported to the Florida Department of Environmental Protection as of Friday. In each instance, the flooding was so severe that officials said it's not possible to tell exactly how much wastewater was released. Instead, estimates were provided.

In Tampa Bay and neighboring tributaries like the Manatee River and Boca Ciega Bay, winds and high seas toppled boats, sending their gasoline into the waters below. Hurricane Idalia's floodwaters are also being blamed for a kerosene leak that sent flammable liquid into a St. Petersburg mobile home park. Tampa Bay Times / [Read more](#)

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