

ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for profit organization dedicated to raising worldwide preparedness and co-operation in response to oil and chemical spills, promoting technical development and professional competency, and to providing a focus for making the knowledge and experience of spill control professionals available to Intergovernmental, Governmental, NGO's and interested groups and individuals

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

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- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalgleish, VP M'ship (USA)

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- Mr Marc Shaye (USA)
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- Ms Mary Ann Dalgleish (USA)
- Captain Bill Boyle (UK)
- Mr John Wardrop (Australia)
- Mr Marc Shaye (USA)
- Mr Michael Watson (UK)

INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNER BELOW FOR MORE INFORMATION



DUTCH DONATION GIVES UN ENOUGH FUNDING TO SALVAGE THE FSO SAFER

[From an article published on September 19 in *The Maritime Executive*]



(Photo courtesy of UN)

Dutch officials are reporting that they are making an additional financial contribution to the UN's effort to remediate the danger from the FSO Safer positioned off Yemen. The UN has been struggling for months to raise an initial \$80 million needed to pump the approximately 1 million barrels of oil stored on the decaying Safer to an alternate storage vessel. The larger plan ultimately calls for the purchase of a permanent replacement and scrapping of the Safer.

In announcing a second contribution to the effort of €7.5 million, Liesje Schreinemacher, Dutch Minister for Foreign Trade and Development Cooperation said they believe the initial funding target has now been reached. In a Tweet, she wrote, "We have now reached the amount needed to start the salvage operation and we can prevent a severe disaster from happening."

The UN has said it believes the FSO Safer is now beyond repair requiring a temporary replacement to offload and store the oil while a second round of fundraising proceeds to provide for a permanent replacement.

The Maritime Executive / [Read the complete version of this article](#)

Other related reports in [Dutch Government Press Release](#) and [Middle East Eye](#)

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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WHATSAPP GROUP FOR STUDENTS, TRAINEES & APPRENTICES

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ISCO NEWS

REMINDER: ISCO'S SEPTEMBER VOLUNTEERS AND MEMBERS ZOOM MEETING

This meeting is scheduled to take place on Thursday 29th September at 3 pm Detrot time. That's 7 pm GMT, 8 pm BST or the equivalent time in your own time zone.

The link for joining the meeting is <https://us02web.zoom.us/j/5220550000>
Meeting ID: 522 055 0000

At recent ISCO meetings there has been a consensus that Volunteers who are actively contributing time and effort to helping ISCO's development should be properly recognised and have a part to play in the organisation's forward planning.

The provisional Agenda is as follows –

1. Request that volunteers confirm their willingness to continue to help ISCO with their as yet not formalised WG roles. Confirm by email to John Wardrop (jwardrop@seerassociates.com) so that he can list members of WGs in the relevant sections of the Action Plan.
2. Agree that each WG adopt one of their members as their WG Leader and, when agreed, notify John Wardrop in order that each WG Leader can be identified in the relevant section of the Action Plan
3. Make recommendations on how the matter of how WG Leaders should be recognised – for example, by co-option to membership of the Secretariat or Executive Committee. Note that co-opted members take office immediately and are usually confirmed at the AGM. This issue will be discussed at an upcoming IE meeting.
4. Any other matters raised by Volunteers and Members at the meetin

ISCO AT SPILLTECH CONFERENCE IN INDIA



Above: Capt. Sekhar, Managing Director of ISCO Corporate Member, AlphaMERS, addresses delegates at the SpillTech Conference in Goa.

September 23 - Captain Sekhar advised "I came back from Goa today after attending the Spilltech seminar. It was a well attended and well arranged event. I spoke in the technical session today including about ISCO. We can look forward to some new corporate members and a lot of student memberships".



YOU CAN PLACE AN ADVERTISEMENT HERE

For information contact
Mike Watson at
spillcontrol@mwadigital.com

UNCOVERING THE HAZARDS OF ABANDONED & DERELICT MARITIME VESSELS

September 19 - Thousands of Abandoned & Derelict Vessels Litter U.S. Ports & Waterways - Per the National Oceanic and Atmospheric Administration's Marine Debris Program (MDP), thousands of abandoned and derelict vessels (ADV) exist in ports and waterways across the U.S.

A "derelict vessel" may have an owner but is neglected or in disrepair. Abandoned and derelict vessels pose severe hazards to delicate ecosystems, sea life, and people who live or work in the area. Many of these vessels remain abandoned for years or even decades—increasing their risk of causing environmental harm and endangering commercial or recreational maritime activities. When coastal storms hit, they may sink and move. As they break apart, they may send debris and potentially harmful substances into the ocean, harbors, and bays. This includes oil and toxic chemicals on board when the vessel was abandoned. Even nets and fishing lines can detach from abandoned ships, where they can harm or kill marine life. gCaptain / [Read this article](#)

ASIA-PACIFIC COUNTRIES GET READY TO TACKLE MARINE PLASTIC LITTER



Photo courtesy of IMO and the GloLitter Partnership

September 20 - The first regional task force meeting for Asia-Pacific countries in a major international project to help reduce marine plastic litter from maritime transport and the fishing sector has been held in Busan, Republic of Korea. The task force meeting, under the IMO- Food and Agriculture Organization of the United Nations (FAO) GloLitter Partnerships Project, brought together 20 participants from 10 countries.



Above: Capt. Sekhar, Member of ISCO Council with a colleague on the ISCO stand.

Below: Delegates at the SpillTech Conference held in India, September 2022



GloLitter Lead Partner Countries (LPCs) presented their draft National Action Plans addressing Sea-based Marine Plastic Litter (SBMPL). Partnering Countries (PCs) shared situational analyses of sea-based sources of marine plastic litter at the national level and presented existing gaps where work needs to be done to address marine plastic litter. IMO / [Read more](#)

UNEP/MAP AT THE ENVIRONMENT FOR EUROPE MINISTERIAL CONFERENCE

September 20 - The [UNECE Ninth Environment for Europe \(EfE\) Ministerial Conference](#) will be held in Nicosia, Cyprus, from 5-7 October 2022. This is the first time that the event takes place in a Mediterranean country. The conference will be preceded by the [Special Session of the Committee on Environmental Policy \(3-4 October 2022\)](#) and the [Special Session of the Steering Committee on Education for Sustainable Development \(4 October 2022\)](#). The third High-level Meeting of Education and Environment Ministries will take place in the immediate aftermath of the 9th EfE Ministerial Conference.

The EfE process was launched in 1991 to support efforts by UNECE Member States to advance environmental governance. Among the UNECE Member States fourteen are [Contracting Parties](#) to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean ([Barcelona Convention](#)). Twelve Contracting Parties to the Barcelona Convention are also Parties to the [UNECE-Aarhus Convention](#). UNEP / [Read more](#)

IOPC FUNDS 2022 INDUCTION COURSE

September 21 - The Director has the pleasure to announce that the IOPC Funds will hold an Induction Course for delegates of 1992 Fund Member States on Monday, 24 October 2022, from 12.30 pm to 5.30 pm, at the Funds' headquarters in London.

Following the successful annual IOPC Funds' Short Course (a week-long comprehensive training course) and having received positive feedback from the last Induction Course held in 2019, the Secretariat has experienced a continued demand from Member States to hold training specifically aimed at providing delegates with an insight into the functioning of the organisations.

The 2022 Induction Course is open to all interested delegates; however, it is designed in particular to benefit those who are either new to the IOPC Funds or have little prior knowledge of the organisations. The aim of the course is to provide a better understanding of the interaction between a Member State and the IOPC Funds in the event of an oil spill. IOPC Funds / [Read more](#)

COUNTDOWN TO COP15: WORLD LEADERS DECLARE AMBITIOUS GLOBAL AGREEMENT TO PROTECT BIODIVERSITY A PRIORITY

September 21 - Yesterday, in the margins of the 77th session of the UN General Assembly in New York, Executive Vice-President Frans Timmermans renewed the EU's commitment to reverse biodiversity loss and fight climate change at the pledging event 'Countdown to CBD COP15: Landmark Leaders Event for a Nature Positive World'. Raising momentum for an ambitious global deal to stop and reverse biodiversity loss at the Biodiversity Conference COP15 (7 to 19 December 2022 in Montreal), the event brought together presidents and prime ministers, as well as indigenous community leaders, NGOs, finance leaders and civil society to commit to momentous action for nature, climate and people. EC Director General for Environment / [Read more and Watch Video](#)

OSPAR COMMISSION 1992–2022: 30 ACHIEVEMENTS FOR 30 YEARS



Photo courtesy of OSPAR Commission

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

September 22 - As OSPAR celebrates 30 years of international cooperation to protect and conserve the marine environment of the North-East Atlantic, we have compiled a list of 30 achievements. Here's to another 30 years!

OSPAR / [Read about OSPAR's achievements over its 30 years](#)

UNEP AT THE UN GENERAL ASSEMBLY

The 77th Session of the UN General Assembly will be held on 13 - 27 September 2022. Follow updates on the [UNEP at the UN General Assembly feed](#).

The [UN General Assembly \(UNGA\)](#) is the main policy-making organ of the Organization. Comprising all Member States, it provides a unique forum for multilateral discussion of the full spectrum of international issues covered by the Charter of the United Nations. Each of the [193 Member States](#) of the United Nations has an equal vote.

The General Debate is each member's opportunity to discuss and work together on a wide array of international issues. The first day of the high-level General Debate will be Tuesday, 20 September 2022. [UNEP / Read more](#)

LARGE EU PROJECT STARTS: BIONEXT WANTS TO MAINSTREAM BIODIVERSITY INTO POLICY-MAKING



Photo: BIONEXT project group of SYKE (Photo courtesy of SYKE)

A new large EU project coordinated by the Finnish Environment Institute SYKE The Biodiversity Nexus - Triggering transformative change for sustainability (BIONEXT) is launching this Autumn. The project got a funding of EUR 4.1 million from the EU's research and innovation program Horizon Europe. Duration of the project is four years.

Ten partners from eight European countries form the consortium. BIONEXT will develop knowledge, tools, and guidance for mainstreaming biodiversity into policy-making and provide concrete options on how to initiate, accelerate and upscale biodiversity relevant transformative change in society.

"BIONEXT provides a great opportunity to bring together diverse scientific expertise to explore building blocks for just transformative change aiming to slow down biodiversity loss", says Project Coordinator, Director Anna-Stiina Heiskanen. [Finnish Environment Institute / Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

AUSTRALIA: INVESTIGATORS ISSUE RECOMMENDATIONS TO OPERATOR AFTER TENTH SHIP FIRE IN 14 YEARS

Photo courtesy of ATSB

September 21 - The Australian Transport Safety Bureau (ATSB) has issued safety recommendations to the managers and parent company of the cargo ship BBC Rhonetal following an investigation into a fire in the hold of the vessel at Port Hedland, Western Australia.

The fire was the tenth such fire on a company ship in the past 14 years, and the fourth investigated by the ATSB, identifying similar contributing factors. At the time of the fire, BBC Rhonetal was owned by Briese Schiffahrts, managed by Briese Heavylift and operated by BBC Chartering & Logistic, all based out of Leer, Germany. [gCaptain / Read more](#)



CANADA RECEIVES VISIT FROM DIRECTOR OF IOPC FUNDS

September 22 - The Director travelled to Ottawa, Canada, from 17–21 September 2022, where he was welcomed by the Head of the Canadian delegation to the IOPC Funds' meetings of the governing bodies, Mr François Marier, and former Chair of the 1992 Fund Executive Committee and current Chair of the IMO Legal Committee, Ms Gillian Grant.



Photo courtesy of IOPC Funds.

Mr Sivertsen visited the offices of Transport Canada to meet with the Director General of Marine Policy, Mr Marc-Yves Bertin, Mr Marier and other representatives of the Canadian delegation. They took the opportunity to discuss recent developments affecting the IOPC Funds, including the impact of international sanctions, and also to look ahead to the planned workshop on the 2010 HNS Convention, which Canada is organising in cooperation with the IMO and IOPC Funds Secretariats

The Administrator of the Canadian Ship-source Oil Pollution Fund (SOPF), Ms Anne Legars (pictured on left), also met with Mr Sivertsen to discuss claims handling, general practices of both organisations and other items of mutual interest. This was followed by a discussion and question and answer session with all members of the SOPF Secretariat. IOPC Funds / [Read more](#)

AUSTRALIA: SUNKEN BARGE NEAR CAMPBELL RIVER TO BE REMOVED FROM THE MARINE ENVIRONMENT

September 22 - The Canadian Coast Guard is pleased to report that the sunken barge, Trailer Princess, located in Duncan Bay north of Campbell River, B.C., will be removed from the water and deconstructed so that it no longer poses a threat to the marine environment. Pollution removal and barge stabilization is underway, and removal and deconstruction of the barge will begin next week.

Canadian Coast Guard / [Read more](#)

CHINA: BLACK PIGS, GREEN TEA, PINK ORCHIDS AND GOLDEN CAMELLIA

September 6 - Though black pigs, green tea, pink orchids and golden camellia mightn't appear at first glance to have much in common, they collectively embody key elements of China's patrimony of genetic resources and traditional knowledge.

UNDP Ecosystems & Biodiversity / [Read more and see many spectacular photographs](#)

GREECE: NEW FREE APP FOR ALL AGAINST MARINE POLLUTION

September - Available to all is the new electronic application SEAtizens Watch for tablets and / or mobile phones (Android and iOS) in order to enhance the collection of valuable information about marine species or visible forms of pollution by taking photos, either from the coast or during the trip by a boat. It is an application that simultaneously promotes and facilitates Citizen Science as it offers the possibility of contributing to a collective effort to gather data with possible scientific value, easily and simply. Information about the application and its use can be found here.

The application was developed in the framework of the program "SEA GUARDIANS – Educating the Guardians of the Sea" funded by the Green Fund and implemented by the Hellenic Marine Environment Protection Association – HELMEPA, AENAOS THALASSA and the Natural Environment and Climate Change Organization (O.FY.PE.K.A), with the scientific help of the Aristotle University of Thessaloniki (Laboratory of Ichthyology of the Department of Biology AUTH). HELMEPA / [Read more](#)

ITALY: KICK OFF MEETING PROGETTO PNRR "TECH4YOU"

September - The Kick off meeting of the PNRR "Tech4You" project will be held on 27 September at the University of Calabria. As part of the project, ISPRA participates as an affiliated partner in Spoke 2 - Goal 2.3 "Protection and enhancement of biodiversity". The project aims to study and protect the marine environment.

- **WHEN** Sep 27, 2022 from 09:30 AM to 04:30 PM
- **WHERE** Rende
- **ADD EVENT TO CALENDAR** [iCal](#)

In this context the most modern technologies aimed at exploring, learning about and preserving marine ecosystems will be applied. Specifically, ISPRA will operate in the validation of innovative solutions for monitoring the marine and terrestrial environment through the integration of methodologies, tools and data on site (detection, mapping and monitoring of natural habitats to analyze ecosystems and recognize substrates and marine species and habitats). [Program](#) [Registration](#)

JAPAN: DELEGATION'S VISIT TO IOPC FUNDS IN LONDON

September 16 - On 15 September 2022, the Director, Mr Gaute Sivertsen, was delighted to welcome the Chairman of the Japan Maritime Center, Mr Masafumi Shukuri, and other representatives from the Japanese delegation to the IOPC Funds, including the Alternate Permanent Representative to IMO, Mr Kohei Iwaki. The Japan Maritime Center is a research institute which conducts research projects within the maritime sector, provides advice to the Japanese Government and manages various non-profit marine activities. IOPC Funds / [Read more](#)

MEXICO: OIL SPILL: REPSOL WILL PRESENT A REHABILITATION PLAN TO RECOVER AREAS STILL AFFECTED

September 18 - The Agency for Environmental Assessment and Enforcement (OEFA) reported that it completed the verification of 97 identified sites, including beaches, cliffs, points and other coastal formations in 11,061 hectares, ranging from La Pampilla beach (Ventanilla) to Punta Salinas beach. (Huacho), as a result of the oil spill that occurred in January 2022 in the Ventanilla Sea by Repsol.

The entity confirmed that it will issue an administrative measure this month for Repsol to present a rehabilitation plan to the energy and mines ministry (Minem) for the affected sites. The company has communicated that it will abide by the provisions of the OEFA to recover the areas still affected. Ruetir / [Read more](#)

SEYCHELLES & BAHAMAS: TACKLING PLASTIC POLLUTION



Above: The Ocean Project team. Photo: The Ocean Project Seychelles

September - How local NGOs in Seychelles and the Bahamas are working with youth to raise awareness and inspire action to address marine plastic pollution.

Our oceans are drowning in plastic - This stark realization inspired three young women to co-found [The Ocean Project Seychelles](#), a local NGO set up to tackle issues affecting the state of the local marine environment through education, outreach, research and action.

In Small Island Developing States like Seychelles and The Bahamas, every aspect of life is intricately linked to the health of the ocean and marine ecosystems. Local NGOs - with support from the GEF Small Grants Programme - are crucial for creating opportunities and enabling environments for youth leaders to speak, act, and advocate for more sustainable futures on their islands.

In the Bahamas, Kaitlyn and her peers are participating in a youth-focused project with [The Bahamas Reef Environment Educational Foundation \(BREEF\)](#) aimed at increasing knowledge about marine ecosystems and the threats they face, including plastic pollution, biodiversity loss and climate change.

UNDP and the GEF / [Read more and see photos illustrating the work being done](#)

URUGUAY: CIVIL SOCIETY CONNECTIONS SET URUGUAY ON A GREENER PATH

September 15 - Fundación Ecos Uruguay, the civil society organization that Leichter founded and leads, has spearheaded an initiative to foster links between individuals and groups working to meet the goals of the three Rio Conventions – on climate change, biodiversity, and desertification.

Through a venture financed by the Global Environment Facility, Ecos has worked to create opportunities for environmental and policy leaders to collaborate on ways to meet Uruguay's obligations under the Convention on Biological Diversity, the UN Framework Convention on Climate Change, and the UN Convention to Combat Desertification.

The [ECCOSUR](#) project, whose acronym stands for Espacios de Coordinación de las Convenciones de Río, began in 2018 with a simple goal: to set Uruguay on a sustainable path toward green growth. The GEF / [Read more and watch video](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

September 19 – Please click on the links below to download and read the latest News Reports from NOAA OR&R

<https://response.restoration.noaa.gov/mapping-tool-erma-gets-new-look-updates-improve-usability>

On Sept. 1, 2022, the Office of Response and Restoration's Environmental Response Management Application (ERMA) team

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

released a new version of the application. The overhauled look and layout focuses on providing a streamlined interface to visualize and explore spatial data.

<https://response.restoration.noaa.gov/esi-program-releases-survey-evaluate-human-use-data>

OR&R has released a brief survey to evaluate the amount of human-use data for inclusion in Environmental Sensitivity Index (ESI) maps.

<https://response.restoration.noaa.gov/public-comment-opens-microfiber-pollution-report>

OR&R has released a brief survey to evaluate the amount of human-use data for inclusion in Environmental Sensitivity Index (ESI) maps.

<https://response.restoration.noaa.gov/public-comment-opens-microfiber-pollution-report>

On Sept. 15, NOAA's Marine Debris Program and the Environmental Protection Agency's [Trash Free Waters Program](#) (link is external), on behalf of the [Interagency Marine Debris Coordinating Committee](#), shared a draft Report on Microfiber Pollution for public comment.

<https://response.restoration.noaa.gov/notice-interagency-marine-debris-coordinating-committee-public-meeting>

On Sept. 29, 2022, the Interagency Marine Debris Coordinating Committee (IMDCC) will hold a virtual public meeting, from 10 a.m. to 11 a.m. ET. The public meeting will focus on federal efforts to address abandoned and derelict vessels.

<https://response.restoration.noaa.gov/exxonmobil-exercises-its-oil-spill-response-system-guam>

Staff from OR&R's Emergency Response Division participated in a worst-case oil spill response exercise conducted by ExxonMobil in Guam from Sept. 12-14.

USA: MICHIGAN APPEALS COURT THROWS OUT CLEANUP ORDER FOR DIOXANE PLUME UNDER ANN ARBOR

September 17 - The Michigan Court of Appeals rejected a Washtenaw County Circuit judge's June 2021 order forcing Gelman Sciences Inc. to step up its remediation efforts on a huge, chronic groundwater plume of cancer-causing dioxane beneath the Ann Arbor area.

The ruling reverts cleanup efforts to a 2011 Washtenaw Circuit Court consent judgment between Gelman and the state of Michigan. At that time, the "prohibition zone" restricting groundwater usage in an area of Ann Arbor and Scio and Ann Arbor townships was based on a drinking water standard of 85 parts per billion of dioxane. That standard was reduced in 2016 to 7.2 parts per billion, after the earlier standard was found to not sufficiently protect public health. Detroit Free Press / [Read more](#)

USA: MICHIGAN - STATE ORDERS COMPANY THAT CAUSED FLINT RIVER SPILL TO END USE OF WASTE TRANSPORT TUNNELS

September 19 - Lockhart Chemical, the company responsible for spilling thousands of gallons of an oil-based substance into the Flint River in June, has been ordered to immediately stop its use of leaky underground waste and storm water tunnels for disposal.

Michigan Attorney General Dana Nessel, Genesee County Sheriff Chris Swanson and other state and local officials announced the action in a news conference on Monday, Sept. 19, saying the order -- the first of its kind in Michigan in more than 30 years -- was necessary to protect the Flint River and those who come in contact with it. Mlive / [Read more](#)

USA: LOUISIANA - POLLUTION CONCERNS ABOUT THIS SWAMP WERE RAISED DECADES AGO. A NEW PLAN COULD HELP.

September 19 - Federal and state officials have begun a new review of the effects of toxic hazardous wastes that have contaminated [Devil's Swamp](#) to determine whether additional steps are required to mitigate damage to natural resources, including several threatened and endangered species, or to compensate the public for their loss. NOLA.com / [Read more](#)

USA: BSEE AND LOUISIANA COLLABORATE TO IMPROVE OIL SPILL PREVENTION AND RESPONSE

September 22 - To better protect Louisiana's coast from oil spills, the Bureau of Safety and Environmental Enforcement and the Louisiana Oil Spill Coordinator's Office (LOSCO) recently signed an [agreement](#) that strengthens coordination on oil spill planning, preparedness, and response offshore Louisiana. The agreement updates and replaces a memorandum of understanding between the agencies from 1994. "BSEE's new agreement with Louisiana improves our ability to collaborate between our agencies and ensures offshore lessees and operators are prepared to handle any discharge from their facilities," said BSEE BSEE / [Read more](#)

USA: NEW JERSEY - HIGH-RANKING OFFICIALS VISIT OIL SPILL RESEARCH TESTING FACILITY

September 22 - Kevin Sligh Sr, director of the Bureau of Safety and Environmental Enforcement (BSEE), welcomed Principal Deputy Assistant Secretary for Land and Mineral Management Laura Daniel-Davis and Deputy Assistant Secretary for Land and Mineral Management Kathryn Kovacs to Ohmsett, the National Oil Spill Response Research and Renewable Energy Test Facility, today.

Government agencies such as the U.S. Coast Guard and the Navy, international partners, academic researchers, private industry, and oil spill response organizations use Ohmsett to conduct oil spill research, test new response tactics and technologies, and train emergency response personnel with actual oil and equipment in realistic conditions.

“Ohmsett is the nation’s premier research and training site for offshore oil spill response,” explained Sligh. “The world’s offshore oil spill response community relies on Ohmsett for critical performance testing and training.” Rigzone / [Read more](#)

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS



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

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.

149. Oil degradation and variation of microbial communities in contaminated soils induced by different bacterivorous nematodes species

Zhou, J., Xu, X., Huang, G., Li, W., Wei, Q., Zheng, J., Han, F.
(2022) *Ecotoxicology and Environmental Safety*, 229, art. no. 113079,
DOI: 10.1016/j.ecoenv.2021.113079

ABSTRACT: Oil pollution poses a great threat to environments and makes the remediation of oil-contaminated soils an urgent task. Microorganisms are the main biological factor for oil removal in the environment but microbial remediation is greatly affected by environmental factors. For our research, we inoculated three species of bacterivorous nematodes into oil-contaminated soil to explore how bacterivorous nematodes affect soil microbial activities and community structure in contaminated soil, as well as how efficiently different nematodes remove oil pollution from the soil. Six treatments were set in this experiment: sterilized oil-contaminated soil (SOC); nematode-free soil (S); oil-contaminated soil (OC); oil-contaminated soil + *Caenorhabditis elegans* (OCN1); oil-contaminated soil + *Cephalobus persegnis* (OCN2); oil-contaminated soil + *Rhabditis marina* (OCN3) for a 168-day incubation experiment. After the experiment was done, the oil contents in SOC, OC, OCN1, OCN2, and OCN3 were reduced by 6.5%, 32.3%, 38.2%, 42.8%, and 40.2%, respectively, compared with the beginning of the experiment. The amount of phospholipid fatty acids (PLFAs) of Gram-negative bacteria in OC, OCN1, OCN2, and OCN3 was increased by 50.9%, 43.4%, 37.7%, and 47.9%, respectively, compared with that of S. During the 168-day incubation period, the maximum growth of the number of nematodes in OCN1, OCN2, and OCN3 compared with the initial number of the nematodes were 2.25-, 1.52-, and 1.65-fold, respectively. The amount of oil residue in the contaminated soil negatively correlated with the populations of nematodes, total microorganisms, Gram-negative bacteria, actinomycetes, and eukaryotes. Thus, oil pollution increased the number of Gram-negative bacteria, decreased the ratio of Gram-positive bacteria/Gram-negative bacteria and Fungi/Bacteria significantly, and altered the community structure of soil microorganisms. Each species of bacterivorous nematodes has got its unique effect on the microbial activity and community structure in oil contaminated soils, but those tested can promote oil degradation and thus improve the environment of oil contaminated soils.

150. Meta-analysis of salt marsh vegetation impacts and recovery: a synthesis following the Deepwater Horizon oil spill,

Zengel, S., Weaver, J., Mendelssohn, I.A., Graham, S.A., Lin, Q., Hester, M.W., Willis, J.M., Silliman, B.R., Fleeger, J.W., McClenachan, G., Rabalais, N.N., Turner, R.E., Hughes, A.R., Cebrian, J., Deis, D.R., Rutherford, N., Roberts, B.J.
(2022) *Ecological Applications*, 32 (1), art. no. e02489,
DOI: 10.1002/eap.2489

ABSTRACT: Marine oil spills continue to be a global issue, heightened by spill events such as the 2010 Deepwater Horizon spill in the Gulf of Mexico, the largest marine oil spill in US waters and among the largest worldwide, affecting over 1,000 km of sensitive wetland shorelines, primarily salt marshes supporting numerous ecosystem functions. To synthesize the effects of the oil spill on foundational vegetation species in the salt marsh ecosystem, *Spartina alterniflora* and *Juncus roemerianus*, we performed a meta-analysis using data from 10 studies and 255 sampling sites over seven years post-spill. We examined the hypotheses that the oil spill reduced plant

cover, stem density, vegetation height, aboveground biomass, and belowground biomass, and tracked the degree of effects temporally to estimate recovery time frames. All plant metrics indicated impacts from oiling, with 20–100% maximum reductions depending on oiling level and marsh zone. Peak reductions of ~70–90% in total plant cover, total aboveground biomass, and belowground biomass were observed for heavily oiled sites at the marsh edge. Both *Spartina* and *Juncus* were impacted, with *Juncus* affected to a greater degree. Most plant metrics had recovery time frames of three years or longer, including multiple metrics with incomplete recovery over the duration of our data, at least seven years post-spill. Belowground biomass was particularly concerning, because it declined over time in contrast with recovery trends in most aboveground metrics, serving as a strong indicator of ongoing impact, limited recovery, and impaired resilience. We conclude that the Deepwater Horizon spill had multiyear impacts on salt marsh vegetation, with full recovery likely to exceed 10 years, particularly in heavily oiled marshes, where erosion may preclude full recovery. Vegetation impacts and delayed recovery is likely to have exerted substantial influences on ecosystem processes and associated species, especially along heavily oiled shorelines. Our synthesis affords a greater understanding of ecosystem impacts and recovery following the Deepwater Horizon oil spill, and informs environmental impact analysis, contingency planning, emergency response, damage assessment, and restoration efforts related to oil spills.

151. Theoretical Substantiation of Mathematical Models of Oil Filtration Through a Porous Medium

Ablieieva, I., Plyatsuk, L., Burla, O., Chekh, O., Enrich-Prast, A.
(2022) *Lecture Notes in Mechanical Engineering*, pp. 571-581.
DOI: 10.1007/978-3-030-91327-4_55

ABSTRACT: This paper focuses on determining the influence of soil, oil, and environmental factors on the process of oil filtration in a porous medium such as soil. Mathematical modeling of the oil geofiltration process based on classical and modified regularities makes it possible to solve a significant environmental problem associated with predicting the pollution zone due to accidental oil spills. The research methodology is based on the substantiation of theoretical models of oil filtration through porous media, methods for the numerical solution of equations, and computer visualization (ANSYS CFX software). Experimental data supported the verification of the adequacy of the models. Based on obtained results, it was found that all oil flowed into well-permeable sand at a speed of approximately 4·10⁻⁴ m/h. The developed model of the stochastic process of petroleum hydrocarbons geofiltration involved obtaining the output as dependent variables, contamination level, contamination depth, and oil spot borders. Numerical solution and visualization using computer simulation showed the distribution of oil hydrocarbons in the soil in vertical and horizontal directions. The mathematical model allowed to predict the formation of the pollution front and assess the contaminated zone's size.

152. Evaluation of the acute toxic effects of crude oil on intertidal mudskipper (*Boleophthalmus pectinirostris*) based on antioxidant enzyme activity and the integrated biomarker response

Pan, Y., Tian, L., Zhao, Q., Tao, Z., Yang, J., Zhou, Y., Cao, R., Zhang, G., Wu, W.
(2022) *Environmental Pollution*, 292, art. no. 118341,
DOI: 10.1016/j.envpol.2021.118341

ABSTRACT: With the development of marine oil industry, oil spill accidents will inevitably occur, further polluting the intertidal zone and causing biological poisoning. The muddy intertidal zone and *Boleophthalmus pectinirostris* were selected as the research objects to conduct indoor acute exposure experiments within 48 h of crude oil pollution. Statistical analysis was used to reveal the activity changes of superoxide dismutase (SOD), catalase (CAT), glutathione peroxidase (GPx) and glutathione S-transferase (GST) in the gills and liver of mudskipper. Then, integrated biomarker response (IBR) indicators were established to comprehensively evaluate the biological toxicity. The results showed that the activities of SOD, CAT and GST in livers were higher than those in gills, and the maximum induction multipliers of SOD, CAT and GPx in livers appeared earlier than those in gills. Both SOD and GPx activities were induced at low pollutant concentrations and inhibited at high pollutant concentrations. For the dose-effect, the change trends of CAT and SOD were roughly inverted. There was substrate competition between GPx and CAT, with opposite trends over time. The activating mechanism of GST was similar to that of GPx, and the activation time was earlier than that of GPx. In terms of dose-effect trends, the IBR showed that the antioxidant enzymes activities in biological tissues were induced by low and inhibited by high pollutant concentrations. Overall, SOD and GPx in gills and CAT and GST in livers of the mudskippers were suitable as representative markers to comprehensively analyze and evaluate the biotoxicity effects of oil pollution in the intertidal zone. The star plots and IBR values obtained after data standardization were consistent with the enzyme activity differences, which can be used as valid supplementary indexes for biotoxicity evaluation. These research findings provide theoretical support for early indicators of biological toxicity after crude oil pollution in intertidal zones.

153. Effects of a Light Crude Oil Spill on a Tropical Coastal Phytoplankton Community

Putzeys, S., Juárez-Fonseca, M., Valencia-Agami, S.S., Mendoza-Flores, A., Cerqueda-García, D., Aguilar-Trujillo, A.C., Martínez-Cruz, M.E., Okolodkov, Y.B., Arcega-Cabrera, F., Herrera-Silveira, J.A., Aguirre-Macedo, M.L., Pech, D.
(2022) *Bulletin of Environmental Contamination and Toxicology*, 108 (1), pp. 55-63.
DOI: 10.1007/s00128-021-03306-4

ABSTRACT: Oiling scenarios following spills vary in concentration and usually can affect large coastal areas. Consequently, this research evaluated different crude oil concentrations (10, 40, and 80 mg L⁻¹) on the nearshore phytoplanktonic community in the southern

Gulf of Mexico. This experiment was carried out for ten days using eight units of 2500 L each; factors monitored included shifts in phytoplankton composition, physicochemical parameters and the culturable bacterial abundance of heterotrophic and hydrocarbonoclastic groups. The temperature, salinity, and nutrient concentrations measured were within the ranges previously reported for Yucatan Peninsula waters. The total hydrocarbon concentration (TPH) in the control at T0 indicated the presence of hydrocarbons (PAHs 0.80 µg L⁻¹, aliphatics 7.83 µg L⁻¹ and UCM 184.09 µg L⁻¹). At T0, the phytoplankton community showed a similar assemblage structure and composition in all treatments. At T10, the community composition remained heterogeneous in the control, in agreement with previous reports for the area. However, for oiled treatments, Bacillariophyceae dominated at T10. Hydrocarbonoclastic bacteria were associated with oiled treatments throughout the experiment, while heterotrophic bacteria were associated with control conditions. Our results agreed with previous works at the taxonomic level showing the presence of Bacillariophyceae and Dinophyceae in oil-related treatments, where these groups showed the major interactions in co-occurrence networks. In contrast, Chlorophyceae showed the key node in the co-occurrence network for the control. This study aims to contribute to knowledge on phytoplankton community shifts during a crude oil spill in subtropical oligotrophic regions.

154. Histological Effects of Light Crude Oil on *Sciaenops ocellatus* Under Experimental Conditions

Couoh-Puga, E.D., Vidal-Martínez, V.M., Ceja-Moreno, V., Árcega-Cabrera, F., Puch-Hau, C., Rodríguez-González, A., May-Tec, A.L., Aguirre-Macedo, M.L.

(2022) *Bulletin of Environmental Contamination and Toxicology*, 108 (1), pp. 71-77.

DOI: 10.1007/s00128-021-03172-0

ABSTRACT: The health status of *Sciaenops ocellatus* was studied by qualitative and quantitative histopathological analysis through histological damage prevalence and degree of tissue change (DTC) in response to 96 h and 9 days of exposure to 0.1, 0.8, and 8 g/L of light crude oil in seawater. The histology of the liver, spleen, kidney, and gills of the fish were analyzed and compared between treatments. Our results showed that the exposed fish developed lesions associated with degenerative and necrotic changes. The highest frequency of damage and DTC scores were observed in the liver and kidney from 96 h to 9-days post-exposure. Generalized additive models of location, scale, and shape, showed that the DTC was strongly associated with crude oil compounds such as naphthalene, Cd, Ni, Pb, and bile polycyclic aromatic hydrocarbon metabolites. Our findings suggest that exposure to crude oil affects fish health, producing irreversible histological damage.

155. Transport and behavior of marine oil spill containing polycyclic aromatic hydrocarbons in mesocosm experiments

Shi, D., Jia, H.

(2022) *Journal of Oceanology and Limnology*,

DOI: 10.1007/s00343-022-1388-7

ABSTRACT: Polycyclic aromatic hydrocarbons (PAHs) are one of the most important groups in oil, and responsible for major toxic and/or carcinogenic impact on humans and wildlife. It is important to understand the behavior of PAHs in marine environment after an oil-spill incident. However, interaction between petroleum PAHs and microbial communities in a marine environment remains unclear. Therefore, a series of mesocosm experiments were conducted, in which water-accommodated fraction (WAF) of oil was generated to simulate an oil-spill scenario and to analyze the transport and behavior of marine oil spill containing PAHs with and without dispersants. Results indicate that the application of dispersant could increase the concentration of total PAHs in water column due mainly to significant increase in the concentration of high-molecular weight (HMW) PAHs at a lower removal rate. At the end of the 7-day experiment, significant amount of HMW PAHs were accumulated in sediment. In general, the application of dispersant did not increase the sediment uptake of PAHs but increased the PAHs concentration in water column.

156. Growth responses of *Avicennia germinans* and *Batis maritima* seedlings to weathered light sweet crude oil applied to soil and aboveground tissues

Heintz, W.J., Willis, J.M.

(2022) *Environmental Science and Pollution Research*,

DOI: 10.1007/s11356-022-20458-w

ABSTRACT: Oil spills are a significant stressor to coastal and maritime environments worldwide. The growth responses of *Batis maritima* and *Avicennia germinans* seedlings to weathered Deepwater Horizon oiling were assessed through a mesocosm study using a factorial arrangement of 4 soil oiling levels (0 L m⁻², 1 L m⁻², 2 L m⁻², 4 L m⁻²) × 3 tissue oiling levels (0% of stem height, 50% of stem height, 100% of stem height). Overall, growth metrics of *B. maritima* displayed much greater sensitivity to both tissue and soil oiling than *A. germinans*, which exhibited a relatively high tolerance to both routes of oiling exposure. *Batis maritima* in the 4 L m⁻² soil oiling treatment demonstrated significant reductions in cumulative stem height and leaf number, whereas no significant effects of soil oiling on *A. germinans* were detected. This was reflected in the end of the study biomass partitioning, where total aboveground and live aboveground biomass were significantly reduced for *B. maritima* with 4 L m⁻² soil oiling, but no impacts to *A. germinans* were found. Tissue oiling of 100% did appear to reduce *B. maritima* stem diameter, but no effect of tissue oiling was discerned on biomass partitioning, suggesting that there were no impacts to integrated growth. These findings suggest that *B. maritima* would be more severely affected by moderate soil oiling than *A. germinans*.

157. Comparative toxicity of hydrocarbons for evaluation of *Lysmata boggesi* as an experimental proxy for deep-water column micronekton

Renegar, D.A., Turner, N.R., Bera, G., Whitemiller, E.G., Riegl, B.M., Sericano, J.L., Knap, A.
(2022) *Toxicology Reports*, 9, pp. 656-662.
DOI: 10.1016/j.toxrep.2022.03.023

ABSTRACT: The potential impacts of sub-surface hydrocarbon plumes to deep-water column micronekton are an important consideration in a more complete understanding of ecosystem effects resulting from deep-sea oil spills. However, evaluating toxicity in these organisms presents multiple challenges, and the use of a shallow-water proxy species allows comparison and validation of experimental results. This study thus examined the suitability of the peppermint shrimp, *Lysmata boggesi*, as an experimental proxy for ecologically important deep-sea zooplankton/micronekton in hydrocarbon toxicity assays. This crustacean species occurs in shallow coastal marine environments throughout the western Atlantic, Caribbean and Gulf of Mexico, is similar in size to the mesopelagic organisms previously tested and is readily available via commercial aquaculture. The effects of 1-methylnaphthalene and fresh Macondo oil (MC252) on *L. boggesi* were assessed in 48-h constant-exposure toxicity tests, and acute thresholds were compared to previously determined LC50s for oceanic mid water Euphausiidae, *Janicella spinacauda*, *Systemaspis debilis*, *Sergestes* sp., *Sergia* sp. and the mysid shrimp *Americamysis bahia*. Acute thresholds and the calculated critical target lipid body burden (CTLBB) for the shallow-water *L. boggesi* were comparable to the deep-water species tested, suggesting that *L. boggesi* may be a suitable proxy for some mesopelagic micronekton species in acute hydrocarbon exposures.

158. Advances in Chemical Analysis of Oil Spills Since the Deepwater Horizon Disaster

Wise, S.A., Rodgers, R.P., Reddy, C.M., Nelson, R.K., Kujawinski, E.B., Wade, T.L., Campiglia, A.D., Liu, Z.
(2022) *Critical Reviews in Analytical Chemistry*,
DOI: 10.1080/10408347.2022.2039093

ABSTRACT: Analytical techniques for chemical analysis of oil, oil photochemical and biological transformation products, and dispersants and their biodegradation products benefited significantly from research following the 2010 Deepwater Horizon (DWH) disaster. Crude oil and weathered-oil matrix reference materials were developed based on the Macondo well oil and characterized for polycyclic aromatic hydrocarbons, hopanes, and steranes for use to assure and improve the quality of analytical measurements in oil spill research. Advanced gas chromatography (GC) techniques such as comprehensive two-dimensional GC (GC × GC), pyrolysis GC with mass spectrometry (MS), and GC with tandem MS (GC-MS/MS) provide a greater understanding at the molecular level of composition and complexity of oil and weathering changes. The capabilities of high-resolution MS (HRMS) were utilized to extend the analytical characterization window beyond conventional GC-based methods to include polar and high molecular mass components (>400 Da) and to provide new opportunities for discovery, characterization, and investigation of photooxidation and biotransformation products. Novel separation approaches to reduce the complexity of the oil and weathered oil prior to high-resolution MS and advanced fluorescence spectrometry have increased the information available on spilled oil and transformation products. HRMS methods were developed to achieve the required precision and sensitivity for detection of dispersants and to provide molecular-level characterization of the complex surfactants. Overall, research funding following the DWH oil spill significantly advanced and expanded the use of analytical techniques for chemical analysis to support petroleum and dispersant characterization and investigations of fate and effects of not only the DWH oil spill but future spills.

159. Hydrocarbon biodegradation potential of microbial communities from high Arctic beaches in Canada's Northwest Passage

Ellis, M., Altshuler, I., Schreiber, L., Chen, Y.-J., Okshevsky, M., Lee, K., Greer, C.W., Whyte, L.G.
(2022) *Marine Pollution Bulletin*, 174, art. no. 113288,
DOI: 10.1016/j.marpolbul.2021.113288

ABSTRACT: Sea ice loss is opening shipping routes in Canada's Northwest Passage, increasing the risk of an oil spill. Harnessing the capabilities of endemic microorganisms to degrade oil may be an effective remediation strategy for contaminated shorelines; however, limited data exists along Canada's Northwest Passage. In this study, hydrocarbon biodegradation potential of microbial communities from eight high Arctic beaches was assessed. Across high Arctic beaches, community composition was distinct, potential hydrocarbon-degrading genera were detected and microbial communities were able to degrade hydrocarbons (hexadecane, naphthalene, and alkanes) at low temperature (4 °C). Hexadecane and naphthalene biodegradation were stimulated by nutrients, but nutrients had little effect on Ultra Low Sulfur Fuel Oil biodegradation. Oiled microcosms showed a significant enrichment of *Pseudomonas* and *Rhodococcus*. Nutrient-amended microcosms showed increased abundances of key hydrocarbon biodegradation genes (*alkB* and *CYP153*). Ultimately, this work provides insight into hydrocarbon biodegradation on Arctic shorelines and oil-spill remediation in Canada's Northwest Passage.

160. Oil Pollution in the Southern Gulf of Mexico: Field and Laboratory Studies

Gold-Bouchot, G.
(2022) *Bulletin of Environmental Contamination and Toxicology*, 108 (1),
DOI: 10.1007/s00128-021-03441-y

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

ABSTRACT: There is relatively little information on pollution problems in the Southern Gulf of Mexico as compared to other regions of the world. After the Macondo well Deep-Water Horizon Blowout many studies were funded by the Gulf of Mexico Research Initiative (GOMRI) and other funding sources on concentrations, fate, and effects of hydrocarbons in the northern Gulf of Mexico (GoM). Similar efforts by Mexico were funded, first through a series of three cruises per year for three years, and smaller projects studying coastal lagoons, sea grass beds, pollutants in sea turtle hatchlings, amongst others, and later through a major funding effort by the joint Department of Energy – CONACyT Energy Research Fund. These two programs greatly improved what we know of the Southern GoM, and particularly about the deeper parts, and the northern portion of the Mexican GoM. This special issue of BECT includes 16 papers, 15 from the two funding programs mentioned above, which give a broad perspective of pollution research in this area. Some papers discuss environmental distributions of metals, other papers discuss possible effects in the field, and some papers discuss laboratory experiments.

TRAINING COURSES

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 – EMSA Academy 2022. [Courses Catalogue](#)
- FRANCE - CEDRE - Click on these links [training catalogue](#) and [2022 calendar](#).
- 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

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

CERTIFICATE IN MARITIME SAFETY MANAGEMENT & THE ISM CODE

From Lloyds Maritime Academy - Course commences 28th September 2022. [More info](#)

TRAINING COURSE: CLASSIFICATION AND LABELLING OF CHEMICALS AND POISON CENTRE NOTIFICATIONS

From Chemical Watch – “Our online training course, Classification and Labelling of Chemicals and Poison Centre Notifications, will be taking place on 2 December.” [More info](#)

NEWFOUNDLAND: Contaminated Sites Health & Safety Training (40-Hour Hazwoper), St Johns, Nov. 14-18

<https://econext.ca/contaminated-sites-health-safety-training-40-hour-hazwoper/>

UPCOMING WEBINAR

OIL IN THE SEA: INPUTS, FATES AND EFFECTS

Public Release Webinar

September 28 | 1:00PM - 2:30PM EDT

Join this public briefing on the new report, "Oil in the Sea IV: Fates, Inputs, and Effects"

The National Academies invites you to join this public webinar for the release of the consensus study report *Oil in the Sea IV: Inputs Fates and Effects* on **Wednesday, September 28** from **1:00 to 2:30pm ET**. This event will cover some of the key takeaways from the report, which documents the state of knowledge around oil in marine environments, identifies important gaps in research and understanding, and makes recommendations on reducing inputs of oil into the sea, reducing the effects of the inputs on the environment, and advancing oil spill science.

This report serves as an update to the most recent report in this series, with the previous installment having been released in 2003. Almost two decades later, there have been significant advances in technology and science, as well as major events, such as the 2010 Deepwater Horizon oil spill, that have reinforced the importance of reducing the quantities and effects of oil in the sea.

Learn more about the project by visiting [the project webpage](#). The full report will be available for free download on September 28 at 11am ET. [REGISTER NOW](#) If you have questions, email Kelly Oskvig at koskvig@nas.edu

UPCOMING EVENTS

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NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- ISPRA, Italy – Meeting of Project on Marine Ecosystems, September 27, 2022
- Online Training – Classification of Labelling of Chemicals & Poison Centre Notifications, Dec. 2, 2022

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- Webinar – National Academies: Oil in the Sea – Inputs, Fates & Effects, September 28, 1.00 to 2.30 pm ET
- Hybrid Event: IMO-Norway Innovation Forum, 28-29 September.
- Webinar - ExxonMobil Oil Spill Response Knowledge Transfer Webinar Series - “A brief but spectacular story about the creation of the ESI shoreline ranking concept, and the oil behavior, impacts, response options, and recovery in marshes” Dr. Jacqueline Michel (Research Planning, Inc.), : November 1st, 2022, 10-11:15 am Houston time (due to the conflict with IOSSC conference, we postponed the October webinar to November)
- Webinar – Remediation & Management of PFAS & Other Emerging Contaminants, 2nd November, 1500-1630 GMT
- Singapore – MEPSEAS Technology Conference, 15-17 November, 2022

WHEN YOU OPEN THE UPCOMING EVENTS PAGE YOU WILL SEE MANY MORE UPCOMING EVENTS

MESSAGES FROM EVENT ORGANISERS

CANADA: INTERNATIONAL OIL SPILL SCIENCE CONFERENCE 2022 – OCTOBER 4-7

Attendees will be able to connect with the oil spill response community, government, industry, and academia to work together to deal with the challenges in the field of oil spill response. The conference will bring experts from around the world to present their latest research in the field of oil spill science including spill prevention, contingency planning, and environmental rehabilitation. [Conference Programme](https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/) [Registration](https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/) <https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/> [View Official Event Video](#)

BAHREIN: RECISO ENVIROSPILL CONFERENCE & EXHIBITION, 11-13 OCTOBER 2022

<https://www.recsoenvirospill.org/>

USA: CLEAN GULF CONFERENCE & EXHIBITION – NOVEMBER 8-10, 2022

We are counting down the weeks until the 31st Annual CLEAN GULF Conference & Exhibition takes place November 8-10 in New Orleans, LA! In just 8 short weeks, over 1,000 professionals involved in spill prevention & response from oil & gas, maritime, rail, environmental, regulatory agencies, oil spill response organizations and service companies will come together to share information and ideas on a variety of topics that effect the oil & gas industry in the Gulf. This year’s CLEAN GULF is packed full of great content and exhibitors – check out what we have in store for you! [Download the Digital Brochure](#) [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

ITALY: ECOMONDO EXPO, RIMINI, 8-11 NOVEMBER, 2022

At Ecomondo 2022, we present, compare and identify the most appropriate technological solutions for reducing pollution and restoring the Mediterranean macro-region, and at the same time, bring together local institutions, private and public actors and financing entities as well citizens and consumers.

[Log in to the reserved area, fill in your data, download your ticket](#) [Digital Preview](#)

AUSTRALIA: ALGA GROUNDWATER FATE & TRANSPORT SYMPOSIUM

ALGA’s Groundwater Fate & Transport Special Interest Group (SIG) is pleased to announce the 2022 Groundwater Fate & Transport symposium will be held in Melbourne on 18 November 2022. The symposium aims to share the latest insights, developments and applications for improving our understanding of contaminant behaviour in the environment.

<https://www.cvent.com/c/abstracts/e9e34139-c7a0-4969-88b9-e2cfb510baab>

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

USA: CALIFORNIA -10TH BIENNIAL OIL SPILL RESPONSE TECHNOLOGY WORKSHOP FEBRUARY/MARCH 2023

California Department of Fish and Wildlife Office of Spill Prevention and Response (OSPR) and Chevron 10th Biannual Oil Spill Response Technology Workshop February/March 2023 in California (TBD). Email or request more info: TechWorkshop2023@wildlife.ca.gov

NORWAY: NOSCA SEMINAR 2023: MARCH 20-24, 2023

The green shift challenges: New oils and new energy carriers. Marine littering. Biological threats [Registration](#)

USA: COLORADO - CLEAN WATERWAYS 2023: 11-13 APRIL, 2023

Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13. Registration rates are currently at a discount of \$350! These are the lowest rates offered for CLEAN WATERWAYS 2023 and expire on Friday, October 28th. The [CLEAN WATERWAYS Planning Committee](#) met in Denver, CO, on September 8th to plan the conference program for the 2023 event. Made up of a group of operators, state and federal regulators, consultants, service companies and OSROs, the committee programmed a total of 12 sessions focused on the most pressing issues for spill prevention and response in the inland environment. Session descriptions and speakers will be announced next month. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#)

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

We are delighted to announce that Spillcon 2023 has been confirmed for 11–15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. For more information contact Spillcon Event Team, Nicky Reading, GPO Box 279, Canberra ACT 2601, Australia; Phone +61 417 244 355, Email spillcon@aip.com.au

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

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NEW PUBLICATIONS

GLOBAL INITIATIVE SOUTH-EAST ASIA UPDATES – SEPTEMBER 2022

- ATSEA-2 Regional Exchange on Oil Spill Preparedness and Response
- 13th Cooperation Forum, under the framework of Cooperative Mechanism on Safety of Navigation and Environment Protection in the Straits of Malacca and Singapore (SOMS)
- MARPOLEX 2022 in Makassar City, South Sulawesi, Indonesia
- National OPRC Workshop in Timor-Leste
- ITOPF 12th Research and Development Award: Applications open from September
- For more updates click on https://www.gisea.org/uploads/files/29/GISEA_Newsletter_Q2-Q3_2022.pdf

NEW STUDY | TRENDS AND OUTLOOK OF MARINE POLLUTION



Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC)

The STUDY ON TRENDS AND OUTLOOK OF MARINE POLLUTION from ships and activities and of maritime traffic and offshore activities in the Mediterranean compiled knowledge about maritime traffic and offshore O&G activities and their impacts on the marine environment, focusing on five main aspects: pollution from oil and chemicals, marine litter, air pollution, non-indigenous species (NIS) and underwater noise. <https://www.rempec.org/en/news-media/rempec-news/study-trends-and-outlook-of-marine-pollution>

INCIDENT REPORTS

TURKIYE: CARGO SHIP CAPSIZES AT THE PIER AT PORT OF ISKENDERUN



Sea Eagle resting on her side after losing stability (Photo courtesy of Turkish Ministry of Transport)

September 19 - The Ministry of Transport reports that when it became evident that the ship had lost stability, the Sea Eagle was evacuated. None of the crew suffered any injuries. The vessel rolled onto its port side coming to rest on the seabed.

They retrieved 24 containers from the harbor and a boom was placed around the ship to capture the leaking oil. The Ministry says that efforts are underway to pump the remaining oil from the vessel. They have recovered 63.5 tons of oil from the ship so far. Survey work is underway to determine the possibility of salvage of the vessel. The Maritime Executive / [Video & Read more](#)

PERU: PETROPERU SAYS LATEST OIL SPILL STEMMED FROM SABOTAGED PIPELINE

September 19 - Peru's state-run oil company Petroperu Sunday reported an attack against the Norperuvian Oil Pipeline (ONP) in the jungle region of Loreto had caused a spill triggering environmental contingency protocols. "Police authorities and Petroperu have been able to confirm that the crude oil leak that spread along the Cuninico river and reached the Marañon river on Friday was the result of an intentional 21-centimeter cut to the pipe," the company said in a statement. The Cuninico is a major tributary to the Marañon river, which in turn is a major contributor to the Amazon river.

"The cut has been sealed with a metal clamp to contain the hydrocarbon," the company also reported. The company also noted that 19 barriers have been installed so far to prevent the spread of hydrocarbons while dialoguing with local groups "to continue with the containment and cleaning work." MercoPress / [Read more](#)

VENEZUELA: TWO MASSIVE FIRES HIT REFINERY COMPLEX

September 19 - On Saturday morning, a raging fire broke out at a marine terminal at the Puerto la Cruz Refinery in Guaraguao, Venezuela, sending flames and smoke high into the sky. Workers with state oil company PDVSA reported the fire at about 0830 hours on Saturday.

Tareck El Aissami, Venezuela's minister of industries, reported that "a gasoline loading arm broke, spilling fuel on the deck of a ship and on the dock, causing a fire in that area. 150 firefighters from Venezuela's National Risk Management System and 15 fire engines responded to the scene. The Maritime Executive / [Read more and watch video](#)

USA: WASHINGTON - SALVAGE OF SUNKEN FISHING VESSEL IN HARO STRAIT HITS A SNAG

September 19 - The Aleutian Isle was raised above the surface on Saturday afternoon, and salvage crews were able to pump out nearly 800 gallons of oily-water mixture. However, they could not access all of the internal compartments safely, and an excessive amount of water remains on board. The extra water weight is more than the team planned for, and it is heavy enough that it could cause the boat to break up if lifted further in the current configuration - even though the crane is able to take the load.

The Maritime Executive / [Read more & see photos](#)

UK: HARROGATE CHEMICAL SPILL - FISH DIE IN THEIR HUNDREDS

September 20 - An unidentified pollution spill into Harrogate's Oak Beck. Harrogate Advertiser / [Read more](#)

GIBRALTAR: RESIDUAL OIL LEAKING FROM OS 35 WRECK AGAIN CLOSES GIBRALTAR PORT

September 21 - While all the tanks had been pumped residual amounts of oil remain aboard the vessel and during the storm over the weekend, a sheen was reported around the vessel as well as reports of tar balls floating in the water. Most of the sheen was broken up by the weather, but some debris was also floating around the vessel. While they were working to reset the booms around the vessel on Tuesday, reports indicated that it appeared to be low sulfur fuel that was still escaping from the OS 35.

The Maritime Executive / [Read more](#)

USA: VERMONT - CITY WAITS ON TEST RESULTS AFTER CLEANUP OF CHEMICAL SPILL NEAR BURLINGTON BEACH

September 22 - The concern-- styrene is a flammable compound. The Vermont Department of Health says it's reasonably anticipated to be a carcinogen. The city says in collaboration with the state and an environmental remediation company, they used a vacuum truck, absorbent pads and booms to stop the liquid's spread. WCAX.com / [Read more](#)

UK: REDCAR - NORTH EAST BEACH BECOMES SEA CREATURE GRAVEYARD AS THOUSANDS WASH UP DEAD

September 23 - The environment department is aware of the new die-off but again declined to link the issue to dredging or halt any further dredges when contacted. Campaigner Sally Bunce declared herself 'sad, angry and confused' by Defra's conduct. She told Metro.co.uk: 'The thousands of razor clams, mussels and other bottom-dwelling sealife stretching into the distance along beaches at Marske and Saltburn bore a striking resemblance to scenes almost a year ago' MSN News / [Read more](#)

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