



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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INTERNATIONAL NEWS

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UN RESUMES WORK ON TREATY TO PROTECT THE HIGH SEAS

August 15 - The United Nations is resuming negotiations this week on the High Seas Treaty that has been dragging on for a decade. The discussion will be a continuation of the progress made in March when delegates met for the fourth time at UN headquarters in New York to finalize the legally binding treaty.

The meeting held in March featured elaborate joint proposals and earnest negotiations, both of which have been perennially missing in the previous rounds, pointing to a commitment by the UN to have an operational High Seas Treaty in the near future.

The high seas, also commonly referred to as international waters, comprises the most significant part of the ocean. In fact, two-thirds of the world's oceans are currently considered international waters, which means all countries have a right to fish, ship, and do research there.

The negotiations recognize international waters as being more than 320 kilometers (200 miles) from any shore. Yet, despite teeming with life, and supporting diverse ecosystems critical to life on earth, only 1.2 percent of these high seas are currently protected

In addition, ecosystems in the high seas are poorly documented, raising concerns among conservationists that some creatures could become extinct before they are discovered.

Some of the notable texts in the proposed High Seas Treaty that will be tabled for the final agreement include the creation of area-based management tools and marine protected areas. The Maritimer Executive / [Read more](#)

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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)

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ISCO NEWS

NEXT VOLUNTEERS AND MEMBERS ZOOM MEETING

This meeting is scheduled for 25th August 2022 at 3pm EST / 7pm GMT / 8pm BST or the equivalent time in your own time zone.

Join Zoom Meeting - <https://us02web.zoom.us/j/5220550000>

Meeting ID: 522 055 0000 Agenda –

- LinkedIn report
- FaceBook Page - request volunteer to monitor & add new ISCO info
- Student activity update from Peter and Mary Ann
- Request volunteers to send editor news for printing in Newsletter
- Ideas invited for new ISCO initiatives
- New business

CLEAN PACIFIC CONFERENCE & EXHIBITION

We regret to advise that ISCO will not have a booth at this year's Clean Pacific Conference & Exhibition. Due to other commitments Mary Ann or Helena could not be there and at short notice we were unable to make alternative arrangements.

A MYSTERY – DID YOU USE THE POST OFFICE TO RENEW YOUR MEMBERSHIP OF ISCO?

ISCO received a payment of £200 into its bank account on June 13 but the payment advice did not include details of the sender. The advice given was "Deposit at Barclays Post Office Credit. made on June 13, 2022" If you made this payment, please get in touch with ISCO Membership Secretary, Mary Ann Dagleish, at mrydetroit@aol.com She needs to know who made the payment in order to allocate the amount received to your account. Thank you for your help.

NEWS REPORTS FROM AROUND THE WORLD

CANADA FINALISES ITS PROMISED SINGLE-USE PLASTIC BAN

August 15 - The Regulations prohibit the manufacturing, importing, sale and exporting of six categories of SUPs - checkout bags; cutlery; foodservice ware made from or containing problematic plastics; ring carriers; stir sticks; and straws (with exceptions).

The six SUPs selected represent a significant portion of plastic waste in Canada and globally that is found littered in the environment or has other negative environmental consequences such as easily fragmenting into micro or macroplastics. These items can also be challenging to recycle with current recycling technologies, some even harming or hampering current recycling systems. Lexology / [Read more](#)

CANADA: COAST GUARD REMOVES ANOTHER LARGE HAZARDOUS VESSEL FROM B.C. COASTLINE

August 15 - Campbell River, B.C. - Under the Oceans Protection Plan, the Government of Canada is working to reduce the number of vessels of concern in Canadian waters, and minimize their impact on coastal communities, the environment and the public. As part of its role under the Wrecked, Abandoned or Hazardous Vessel Act, the Canadian Coast Guard is pleased to report that another ship has been removed and is currently being deconstructed so it is no longer a threat to the marine environment.

The Motor Vessel (MV) Mini Fusion, a 56 metre cargo ship, previously abandoned and anchored in Doctor Bay, Desolation Sound in British Columbia, has been removed and is currently being deconstructed by Marine Recycling Corporation following a



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competitive bid process. The contract requires that the work to be carried out in an environmentally compliant manner, including salvaging of appropriate materials and recycling of scrap metal, ensuring strict controls on the disposal of hazardous waste, and closely managing the health and safety of those working on the project. Canadian Coastguard / [Read more](#)

CANADA AND NOVA SCOTIA COMMIT TO SHARED ACTIONS TO PROTECT MORE NATURE AND HALT BIODIVERSITY LOSS

August 18 - Today, the Minister of Environment and Climate Change and Minister responsible for Parks Canada, the Honourable Steven Guilbeault, together with the Nova Scotia Minister of Environment and Climate Change, the Honourable Timothy Halman, and the Nova Scotia Minister of Natural Resources and Renewables, the Honourable Tory Rushton, marked Canada and Nova Scotia's shared commitment to nature conservation at an event at Maskwa Aquatic Club, next to the Blue Mountain – Birch Cove Lakes wilderness area, the site of the first proposed national urban park in Nova Scotia. Government of Canada / [Read more](#)

CANADA: WORKSHOP ON THE 2010 HAZARDOUS AND NOXIOUS SUBSTANCES (HNS) CONVENTION

From Ship-Source Oil Pollution Fund - Anne Legars, our Administrator will participate in the workshop on the 2010 HNS Convention on October 31 and November 01, 2022. This workshop is organised by the Canadian delegation in cooperation with the IOPC Funds and the IMO.

Canada ratified the International Convention on Liability and Compensation in Connection with the 2010 HNS Convention. The convention is likely to enter into force in the near future, given that a number of countries have made progress in their ratification. The IOPC Funds' and IMO's secretariats formed an informal working group to prepare a draft Claims Manual for the future HNS Fund. More information on the HNS Convention can be found at: www.hnsconvention.org SOPF / [Read more](#)

EGYPT LAUNCHES THE OFFICIAL WEBSITE FOR THE CONFERENCE OF THE PARTIES (COP 27) TO THE UNFCCC



Welcome Message From President Abdel Fattah El-Sisi – “The hosting of COP27 in the green city of Sharm El-Sheikh this year marks the 30th anniversary of the adoption of the United Nations Framework Convention on Climate Change. In the thirty years since, the world has come a long way in the fight against climate change and its negative impacts on our planet; we are now able to better understand the science behind climate change, better assess its impacts, and better develop tools to address its causes and consequences”. COP 27 EG / [Read more](#)

SOMALIA: OIL SPILL CONTINGENCY PLANNING STRENGTHENS MARITIME SECURITY

August 15 - Oil spill contingency planning is the process of developing a suitable spill response capability with guidance on the contingency planning process for potential oil spills in or on water following an accidental release of oil to a marine or aquatic environment, whether that be during the handling, transport, production or storage of oil products.

Somalia is posed to serious marine environment pollution especially emanating from oil spills which is however an international problem and the solution lies with enforcement of international regulations by countries such as Somalia.

On 15 and 16 February the first part of the Maritime Criminal Justice Chain Exercise (MACRILEX) 2 exercise, hosted by the Ministry of Ports and Marine Transport (MPMT), took place with seminar on Oil Spill preparedness exercise. African Business / [Read more](#)



UK UNVEILS NEW MARITIME STRATEGY TO TACKLE EMERGING THREATS

August 15 - The United Kingdom has unveiled a new maritime security strategy that is designed to respond to emerging risks that threaten the future of the industry. The new strategy redefines maritime security as upholding laws, regulations and norms to deliver a free, fair and open maritime domain, thus recognizing illegal, unreported and unregulated (IUU) fishing and environmental damage to the country's seas as a maritime security concern.

The UK government reports the five-year new strategy will enhance maritime capabilities in technology, innovation, and cyber security and also reduce environmental damage, a development that is aimed at securing the country's position as a world-leading maritime nation. The Maritime Executive / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

August 15 – Please click on the links below to download and read the latest news reports from NOAA OR&R

<https://response.restoration.noaa.gov/marine-debris-program-attends-recreational-crabber-outreach-event>

On Aug. 3, 2022, NOAA Marine Debris Program Mid-Atlantic Regional Coordinator Katie Morgan attended an outreach event in Fenwick Island, Delaware, organized by Delaware Sea Grant.

<https://response.restoration.noaa.gov/gulf-mexico-resource-advisor-training-held-virtually>

On Aug. 3-4, 2022, the NOAA's Office of Response and Restoration held the Gulf of Mexico Resource Advisor (RA) Training. The goal of this two-day virtual training was to ensure coastal resource managers understand the role of an RA and have the tools needed to fulfill the role in the field successfully.

USA: MICHIGAN - POLLUTED BASF SITE DOWNRIVER RAISES ALARM, DELAYS DETROIT RIVER CLEANUP

August 16 - Pollution flowing from a Wyandotte chemical plant known as "one of the most complex cleanup sites" in the Metro Detroit region is delaying a major Detroit River remediation project, federal environmental officials said.

State environmental regulators raised alarm bells this spring about the BASF Corp. facility in Wyandotte, where up to 34,000 gallons of water runs through polluted soil every day, picking up toxins including mercury, cyanide, volatile organic compounds and PFAS before flowing into the Detroit River. The site runs roughly 1.7 miles along the Detroit River shoreline Detroit News / [Read more](#)

NEWS FROM ISCO MEMBERS

Corporate Members and Industry Partners of ISCO can submit news about new products and services in the "News from ISCO Members" section of the ISCO Newsletter. This is a free facility for Corporate Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 50 countries, it's a cost-effective way to promote your organisation.

If you have some news you would like to share with readers of the ISCO Newsletter, send it to John.McMurtrie@spillcontrol.org

THE GOVERNMENTAL AUTHORITY OF BANGLADESH HAS CHOSEN LAMOR TO DELIVER SOLUTIONS FOR OIL SPILL RESPONSE AND WASTE MANAGEMENT IN BANGLADESH

July 20 - The governmental authority of Bangladesh, Cabinet Committee on Government Purchase (CCGP), has today approved three tenders provided by Lamor to deliver projects for Mongla Port Authority (MPA) aiming to increase the preparedness for oil spill response and the level of waste management in the Mongla Port in Bangladesh. The total value of these three equipment projects is approximately EUR 25 million.

The first project is for oil spill response vessels, including oil spill response equipment ready for rapid response. The second project contains Bangladesh' first-ever port reception facility to handle and process various waste from vessels. The third project is for a technically advanced, 24-metre-long MARPOL collection vessel. LAMOR / [Read more](#)

SCIENCE & TECHNOLOGY

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

HOW CAN POLYMER STRIPS BE USED TO CLEAN UP OIL SPILLS?

August 8 - Across the world, the exploration and transportation of crude oil has transformed many sectors. Several approaches to

averting the threat of pollution have been researched, and the application of polymer strips to clean up oil spills is a growing area of interest.

Ideal sorbents that have continued to generate much research interest are polyacrylonitrile (PAN), polyvinylidene fluoride (PVDF), aerogels, resins, foams, sponges, and polystyrene (PS) that have undergone the process of electrospinning to produce sorbents with improved surface-to-volume ratios, higher oleophilic, and hydrophobic properties among others. In addition to the electrospinning method, other crucial components that affect the properties of the polymer strip include the choice of the adsorbent material. Porous polymeric composites have been reported to be an excellent choice owing to their high adsorption capacity, ease of preparation, and subsequent recycling.

With the increasing number of plastic wastes from both industrial and domestic uses, recycling these plastic wastes to produce useful sorbent materials for oil spill remediation is necessary. AZO Materials / [Read more about recent studies and applications](#)

TRACES OF 2010 DEEPWATER HORIZON OIL SPILL ARE STILL DETECTABLE IN 2020

August 9 - Small amounts of highly weathered oil residues from the 2010 Deepwater Horizon disaster were still present in the surroundings ten years later, shows a new report. Crude oil is a complex mixture with many components that undergo chemical reactions in the environment. These transformed chemicals, as well as longer persisting oil products, can impact local ecosystems and a better understanding of the fates of these molecules can help future cleanup efforts.

The oil spilled during the Deepwater Horizon disaster in 2010 was largely transformed by the end of that summer, reports a new study in *Frontiers in Marine Science*. But some small quantities of chemical residues still persisted in the environment even ten years later. This latest study follows the varied fates of the leaked petroleum components, providing important insights for future spills and cleanup efforts.

"The better we understand the chemicals and their chemical reactive properties as well as their physical properties, the better we will be able to mitigate oil spills and understand and detect environmental damages from oil spills," said first author Prof Edward Overton of Louisiana State University. *Phys Org* / [Read more](#)

IMPROVING HOW MICROBES BREAK DOWN PFAS

Research brief from National Institute of Environmental Health Sciences, Superfund Research Program (SRP), August 2022

Researchers demonstrated a method to break down PFAS into smaller, non-toxic molecules using defluorination. The team explored how microorganisms can break the carbon-fluorine bonds to potentially transform them into non-toxic products in anaerobic environments. Their study included 16 different fluorinated carboxylic acids (FCAs), a relatively new group of PFAS. Unsaturated FCAs, which have at least one double bond between their carbon atoms with a fluorine atom attached to the double carbon bond, were more vulnerable to defluorination under anaerobic conditions. Perfluorinated FCAs had higher defluorination degrees than polyfluorinated ones. Researchers observed that the location of the fluorine atoms is important. For example, MeU-C6b, which has no fluorine atoms linked to the carbons with double bonds, had a low defluorination degree compared to the other unsaturated chemicals. The researchers tested an aerobic remediation approach in which microorganisms in activated sludge from a local wastewater treatment plant use oxygen to degrade FCAs. Aerobic conditions enhanced the defluorination of the polyfluorinated FCAs, which showed low removal and defluorination under anaerobic conditions. U-C5c, which did not degrade in anaerobic remediation, exhibited an 80% defluorination rate under aerobic conditions. Activated sludge did not affect perfluorinated FCAs.

https://tools.niehs.nih.gov/srp/1/ResearchBriefs/pdfs/SRP_ResearchBrief_332_508.pdf

Source: <https://clu-in.org/products/tins/>

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.

106. Water Accommodated Fraction of Macondo Oil Has Limited Effects on Nitrate Reduction in Northern Gulf of Mexico Salt Marsh Sediments Regardless of Prior Oiling History

Tollette, D.G., Mortazavi, B., Tatariw, C., Flournoy, N., Sobecky, P.A. (2022)

Water, Air, and Soil Pollution, 233 (8), art. no. 310,
DOI: 10.1007/s11270-022-05688-5

ABSTRACT: Coastal marshes provide valuable ecosystem services including the removal of excess nitrogen (N) prior to reaching coastal waters. Crude oil contamination can disrupt N cycling processes, and while the impacts of crude oil on marsh structure and function are well studied, less is known about the effects of different oil components. The objective of this study was to determine how water accommodated fraction (WAF) of oil impacts marsh sediment N cycling capacity from three marshes with differing characteristics. One site was previously oiled following the Deepwater Horizon (DWH) oil spill while the other two sites had no known history of oil spills. We measured 16S rRNA gene composition from sediments collected from each marsh then conducted a laboratory incubation experiment on sediments treated with different concentrations (0%, 25%, 100%) of WAF. The DWH impacted site had a lower number of observed microbial taxa and lower Chao1 diversity, but a higher relative abundance of putative hydrocarbon degraders compared to the other sites. While there was no treatment effect of WAF on sediment denitrification, denitrification potential rates were 2.4 × higher in the DWH impacted sediment compared to the other sites. There were no differences in dissimilatory nitrate reduction to ammonium (DNRA) potential rates across sites, but 100% WAF treatments increased rates nearly twofold at one of the unoiled sites. These results suggest oil contamination alters the microbial community structure and impacts N cycling processes in salt marsh sediments.

107. Petroleum spill bioremediation by an indigenous constructed bacterial consortium in marine environments

Liu, S., Sun, R., Cai, M., Kong, Y., Gao, Y., Zhang, T., Xiao, X., Qiao, Y., Xue, J., Huang, G. (2022) *Ecotoxicology and Environmental Safety*, 241, art. no. 113769,
DOI: 10.1016/j.ecoenv.2022.113769

ABSTRACT: In the process of marine oil spill remediation, adding highly efficient oil degrading microorganisms can effectively promote oil degradation. However, in practice, the effect is far less than expected due to the inadaptability of microorganisms to the environment and their disadvantage in the competition with indigenous bacteria for nutrients. In this article, four strains of oil degrading bacteria were isolated from seawater in Jiaozhou Bay, China, where a crude oil pipeline explosion occurred seven years ago. Results of high-throughput sequencing, diesel degradation tests and surface activity tests indicated that *Pseudomonas aeruginosa* ZS1 was a highly efficient petroleum degrading bacterium with the ability to produce surface active substances. A diesel oil-degrading bacterial consortium (named SA) was constructed by ZS1 and another oil degrading bacteria by diesel degradation test. Degradation products analysis indicated that SA has a good ability to degrade short chain alkanes, especially n-alkanes (C10-C18). Community structure analysis showed that OTUs of *Alcanivorax*, *Pseudomonas*, *Ruegeria*, *Pseudophaeobacter*, *Hyphomonas* and *Thalassospira* on genus level increased after the oil spill and remained stable throughout the recovery period. Most of these enriched microorganisms were related to known alkane and hydrocarbon degraders by the previous study. However, it is the first time to report that *Pseudophaeobacter* was enriched by using diesel as the sole carbon source. The results also indicated that ZS1 may have a dominant position in competition with indigenous bacteria. Oil pollution has an obvious selective effect on marine microorganisms. Although the oil degradation was promoted after SA injection, the recovery of microbial community structure took a longer time.

PUBLICATION STAGE: Final

108. Characterizations and comparison of low sulfur fuel oils compliant with 2020 global sulfur cap regulation for international shipping,

Nelson, R.K., Scarlett, A.G., Gagnon, M.M., Holman, A.I., Reddy, C.M., Sutton, P.A., Grice, K. (2022) *Marine Pollution Bulletin*, 180, art. no. 113791,
DOI: 10.1016/j.marpolbul.2022.113791

ABSTRACT: The International Marine Organization 2020 Global Sulfur Cap requires ships to burn fuels with $\leq 0.50\% S$ and some countries require $\leq 0.10\% S$ in certain Sulfur Emission Control Areas but little is known about these new types of fuels. Using both traditional GC–MS and more advanced chromatographic and mass spectrometry techniques, plus stable isotopic, $\delta^{13}C$ and δ^2H , analyses of pristane, phytane and n-alkanes, the organic components of a suite of three 0.50% S and three 0.10% S compliant fuels were characterized. Two oils were found to be near identical but all of the remaining oils could be forensically distinguished by comparison of their molecular biomarkers and by the profiles of the heterocyclic parent and alkylated homologues. Oils could also be differentiated by their $\delta^{13}C$ and δ^2H of n-alkanes and isoprenoids. This study provides important forensic data that may prove invaluable in the event of future oil spills.

109. A Cluster-Based Technique for Identifying and Grouping Oily Waste Types Generated From Marine Oil Spill Response Operations

Hafezi, M.H., Daisy, N.S., Liu, L. (2022)
 Frontiers in Environmental Science, 10, art. no. 910214,
 DOI: 10.3389/fenvs.2022.910214

ABSTRACT: In the event of a marine oil spill and its subsequent response operations, different types of oily wastes are generated in large quantities, and their management is a significant challenge that oil spill responders face. The goal of this study is to develop a comprehensive pattern recognition modeling framework for deriving and grouping a set of unique clusters that separate different types of oily wastes from each other. The main idea is to group oily wastes based on their unique characteristics, such as the percentage of oil, percentage of water, percentage of mineral matter, and percentage of organic matter. Each cluster has a relatively homogeneous pattern of pollution characteristics. Prior to implementing the cluster analysis technique, it is important to evaluate and transform the raw oily waste data using well-defined criteria. An advanced machine learning technique, fuzzy C-means clustering algorithm, is employed to classify the oily wastes. The Kolmogorov–Smirnov tests are employed to examine the statistical significance of clustered data. Results show a heterogeneous diversity in seven identified clusters in relation to different types of oily wastes. The cluster-based analysis method presented in this article is an integral part of an integrated optimization-based model which will provide valuable inputs for adjustment of the existing management practices, enhancement of short-term pollution control strategies, and development of long-term oily waste management policies. The output of this study would provide a better tool to waste characterization and sorting steps that are required to immediately separate recovered waste to support downstream response efforts. This result of this study also supports the overall goal of minimizing impact on the environment by ensuring the maximum amount of recovered waste can be recycled or disposed in an environmentally friendly fashion. Moreover, properly classified, sorted, and labeled waste will greatly help with downstream steps of packaging, transportation, and tracking of waste, and as a result, it will minimize total waste management time and costs, under the constraints involving waste storage and transport capacities, waste pre-treatment and treatment facility capacities, and environmental regulatory compliance, as well as other operational and logistic constraints.

110. Effects of oil contamination on plant growth and development: a review,

da Silva Correa, H., Blum, C.T., Galvão, F., Maranhão, L.T. (2022)
 Environmental Science and Pollution Research, 29 (29), pp. 43501-43515.
 DOI: 10.1007/s11356-022-19939-9

ABSTRACT: Oil spills generate several environmental impacts and have become more common with the increase in petroleum extraction, refining, transportation, and trade. In soil, oil contamination increases water and nutrient availability and compaction, directly affecting plant growth and development. Different aspects of phytotoxicity can be observed and will vary according to the characteristics of soil and plants. Oil-contaminated soil also results in negative effects on biomass and changes in leaves and roots. Investigating the effects of oil contamination on plant growth and development can aid in the conservation of plant species and in the development of techniques such as bioremediation and biomonitoring. Thus, this review aims to discuss the main effects of oil contamination on plants, such as environmental stress and morphological, physiological, and anatomical changes, and the strategies developed by plants to survive contamination, as well as to identify plants with phytoremediation potential that can assist in removing oil from the environment.

111. Hydrolysis of Methylumbelliferyl Substrate Proxies for Esterase Activities as Indicator for Microbial Oil Degradation in the Ocean: Evidence from Observations in the Aftermath of the Deepwater Horizon Oil Spill (Gulf of Mexico)

Ziervogel, K., Kamalanathan, M., Quigg, A. (2022)
 Journal of Marine Science and Engineering, 10 (5), art. no. 583,
 DOI: 10.3390/jmse10050583

ABSTRACT: Biological oil weathering facilitated by specialized heterotrophic microbial communities plays a key role in the fate of petroleum hydrocarbon in the ocean. The most common methods of assessing oil biodegradation involve (i) measuring changes in the composition and concentration of oil over time and/or (ii) biological incubations with stable or radio-labelled substrates. Both methods provide robust and invaluable information on hydrocarbon biodegradation pathways; however, they also require extensive sample processing and are expensive in nature. More convenient ways to assess activities within microbial oil degradation networks involve measuring extracellular enzyme activity. This perspective article synthesizes previously published results from studies conducted in the aftermath of the 2010 Deepwater Horizon (DwH) oil spill in the northern Gulf of Mexico (nGoM), to test the hypothesis that fluorescence assays of esterases, including lipase activity, are sensitive indicators for microbial oil degradation in the

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

ocean. In agreement with the rates and patterns of enzyme activity in oil-contaminated seawater and sediments in the nGoM, we found close correlations between esterase activity measured by means of methylumbeliferyl (MUF) oleate and MUF butyrate hydrolysis, and the concentration of petroleum hydrocarbons in two separate laboratory incubations using surface (<1 m) and deep nGoM waters (>1200 m). Correlations between esterase activities and oil were driven by the presence of chemical dispersants, suggesting a connection to the degree of oil dissolution in the medium. Our results clearly show that esterase activities measured with fluorogenic substrate proxies are a good indicator for oil biodegradation in the ocean; however, there are certain factors as discussed in this study that need to be taken into consideration while utilizing this approach.

112. Effects of *Chlorella vulgaris* Enhancement on Endogenous Microbial Degradation of Marine Oil Spills and Community Diversity

Song, Z., Liu, M., Bao, B., Guo, J., Tao, H., Zhu, B., Chen, Q. (2022) *Microorganisms*, 10 (5), art. no. 905, DOI: 10.3390/microorganisms10050905

ABSTRACT: Biofortification could improve the bioremediation efficiency of microbes in the reparation of marine environmental damage caused by oil spills. In this paper, *Chlorella vulgaris* LH-1 was used as a fortifier to enhance the degradation of a marine oil spill by endogenous microorganisms. The addition of *C. vulgaris* LH-1 increased the degradation efficiency of crude oil by 11.09–42.41% and considerably accelerated oil degradation efficiency. Adding *C. vulgaris* LH-1 to a crude oil environment can improve the activity of endogenous seawater microorganisms. The results of high-throughput sequencing showed that the main bacterial genera were *Oceanicola*, *Roseibacillus*, and *Rhodovulum* when exotrophic *C. vulgaris* LH-1 and seawater endogenous microorganisms degraded low-concentration crude oil together. However, the addition of high-concentration nutrient salts changed the main bacterial genera in seawater to unclassified *Microbacterium*, *Erythrobacter*, and *Phaeodactylibacter*. The addition of *C. vulgaris* LH-1 increased the abundance of marine bacteria, *Rhodococcus*, and *Methylophaga* and decreased the abundance of *Pseudomonas*, *Cladosporium*, and *Aspergillus*. The functional prediction results of phylogenetic investigation of communities by reconstruction of unobserved states indicated that *C. vulgaris* LH-1 could improve the metabolic ability of seawater endogenous microorganisms to degrade endogenous bacteria and fungi in crude oil.

113. Prospects in the bioremediation of petroleum hydrocarbon contaminants from hypersaline environments: A review.

Jimoh, A.A., Ikhimiukor, O.O., Adeleke, R. (2022) *Environmental Science and Pollution Research*, 29 (24), pp. 35615-35642. DOI: 10.1007/s11356-022-19299-4

ABSTRACT: Hypersaline environments are underappreciated and are frequently exposed to pollution from petroleum hydrocarbons. Unlike other environs, the high salinity conditions present are a deterrent to various remediation techniques. There is also production of hypersaline waters from oil-polluted ecosystems which contain toxic hydrophobic pollutants that are threat to public health, environmental protection, and sustainability. Currently, innovative advances are being proposed for the remediation of oil-contaminated hypersaline regions. Such advancements include the exploration and stimulation of native microbial communities capable of utilizing and degrading petroleum hydrocarbons. However, prevailing salinity in these environments is unfavourable for the growth of non-halophylic microorganisms, thus limiting effective bioremediation options. An in-depth understanding of the potentials of various remediation technologies of hydrocarbon-polluted hypersaline environments is lacking. Thus, we present an overview of petroleum hydrocarbon pollution in hypersaline ecosystems and discuss the challenges and prospects associated with several technologies that may be employed in remediation of hydrocarbon pollution in the presence of delimiting high salinities. The application of biological remediation technologies including the utilization of halophilic and halotolerant microorganisms is also discussed.

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>
- 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/>

TRAINING COURSES (CONTINUED)

- 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 COMBATTING MARINE & AIR POLLUTION FROM SHIPPING

From Lloyds Maritime Academy - over 12 weeks (Part-time), Starting 23 August 2022. [More info](#)

CERTIFICATE IN MARITIME SAFETY MANAGEMENT & THE ISM CODE

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

USA: OHMSETT - OIL SPILL RESPONSE STRATEGIES & TACTICS TRAINING

During the 3 ½ days of training, you will learn the strategies and tactics for successful spill response operations. Course Topics: Factors affecting oil spill movement + Fates & effects of spilled oil + Oil skimmer & containment boom selection & use + Booming & recovery strategies + Site safety planning + Incident Command System (ICS) + Alternative response techniques + Shoreline Characterization (Introduction to SCAT) + And More! September 20 - 23, 2022 - Tuesday - Thursday: 8:00 AM - 4:00 PM Friday: 8:00 AM - 1:00 PM; [Register](#)

FREE ONLINE SPCC TRAINING

HalenHardy's Oil Handler Annual Refresher Training is divided into six easy-to-digest microlearning modules. [More info](#)

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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

NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- ALGA Webinar – Latest Advances in Managing PFAS in Fire System Foar Transition, Online, Sept 1, 2022
- Lecture: NOAA OR&R 101 Series: Oil Spill Fate and Transport, Sept 15 1200 pm PDT

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- EM OSR Knowledge Transfer Webinar "The BIOS & ITOSS Shoreline Field Experiments" Dr Ed Owens - September 6
- OSRL: TPR Wheel Seminar Series – Shoreline Assessment Technique (SCAT) , Wednesday 28th September 1400 BST

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

MESSAGES FROM EVENT ORGANISERS

USA: CLEAN PACIFIC – AUGUST 23-24

Join your peers from the Pacific Northwest to share experiences and discuss solutions to response challenges for oil and hazardous spills and environmental emergencies specific to the Pacific region. This year's event is set to be bigger and better with two full days of content, new exhibiting companies and over 250 in attendance! Registration rates increase by \$100 after 8/19/2022. [Download the brochure](#) [Registration](#) [networking-oriented sponsorship opportunities](#)

INDIA: SPILLTECH CONFERENCE & EXHIBITION, 21-23 SEPTEMBER, 2022

To support the Sustainable Development Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development, SpillTech will cover a wide range of topics revolving around prevention, mitigation & probable solutions to save the environment from any catastrophic disasters. Apart from the policy & regulatory updates, the event topics will revolve around oil & chemical spills, Ocean Debris, Waste & Solid waste management, Shoreline cleanup, Risk mitigation & a few more.

For ISCO Members a 10% discount on Registration Fee. <http://spilltech.org/> [Download event brochure](#) [Submit you abstract](#)

FRANCE: SEA TECH WEEK 2022

Sea Tech Week®, Marine Science & Technology Conference - 26-30 September 2022, Brest, France – More info - <https://www.seatechweek.eu/>

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

IOSSC 2022 REGISTRATION IS OPEN -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. **NEW** – [Official Video Released](#)

Register before August 31, 2022 to pay our early bird rates. [Preliminary Conference Programme](#) [Registration](#) Website: <https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/>

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

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

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

PRELIMINARY CONFERENCE AGENDA

Welcome and Opening Keynote (Open to All Attendees) WEDNESDAY, NOVEMBER 8 10:45 AM - 12:15 PM - Kevin M. Sligh Sr. MBA, CEM, Director, Bureau of Safety and Environmental Enforcement (BSEE) Kevin M. Sligh Sr. is the Director of the Bureau of Safety and Environmental Enforcement, Department of Interior. He joined BSEE on March 28, 2022, and leads the bureau in its mission to promote safety, protect the environment and conserve offshore energy resources through the regulatory oversight and enforcement. [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

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

Let's meet at Ecomondo! [Log in to the reserved area, fill in your data, download your ticket](#)

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>

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 Biennial Oil Spill Response Technology Workshop February/March 2023 in California (TBD). **Inviting short abstracts by August 25th, 2022** for field or video demonstrations, and or traditional lecture presentations. 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

Now Open: CLEAN WATERWAYS 2023 Call for Presentations, The CLEAN WATERWAYS program is developed by a government/industry-based committee of approximately 45 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 Thursday, August 25th, 2022.** [More News re conference & abstract submission](#)

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

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/> US EPA Tech Direct <https://clu-in.org/techdirect/archive/> and USA Federal Contracts Update <https://clu-in.org/Federal-Contract-Opportunities> European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter <https://www.emsa.europa.eu/newsroom/newsletters.html>

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

TO VIEW LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS PLEASE CLICK ON <https://spillcontrol.org/2021/10/19/links-for-downloading-and-reading-other-publications/>

As a service to its Members ISCO provides a listing of publications that may be of interest to our community. This page provides details and links for downloading more than 40 publications most of which can be accessed at no cost. This page is frequently updated. ISCO depends on regular receipt of updated URL links for listed publications. If these are not received, relevant entries will be discontinued. ISCO is currently looking for a volunteer to take care of maintaining, improving and updating this page.

NEW PUBLICATIONS

CANADA: NEW COMPENSATION HANDBOOK ISSUED BY SOPF



This handbook provides general information for cities, towns, villages, districts, band councils, including elected officials, employees, and their citizens.

You may find this handbook especially useful if your municipal, local or Indigenous government owns, manages or is in proximity of:

- A marina, wharf or other docking area;
- A coastal park, trail or beach;
- A water treatment plant near marine traffic;
- Any navigable lake, river, canal, or ocean.

We operate based on the polluter pays principle. Once we pay a claimant, we take all reasonable measures to recover from the shipowner or other responsible persons.

SOPF / [Read more](#)

INCIDENT REPORTS

GERMANY, POLAND & CZECHIA : RIVER ODER FISH KILL UPDATE

August 13 - Vast amounts of chemical waste were probably dumped into a river on the Polish-German border, Poland's prime minister said Friday, killing tons of fish and creating an ecological disaster that could take years to clean up.

Authorities said 150 Polish troops have been deployed to the 522-mile-long Oder River, which flows through Poland, Germany and the Czech Republic, to launch a cleanup operation. The chemical spill was likely intentional, Prime Minister Mateusz Morawiecki said on a podcast Friday. "It is likely that enormous amounts of chemical waste have been dumped into the Oder River, and this was done with full awareness of the risks and consequences," Morawiecki said. "We will not let this matter go, we will not rest until the guilty are severely punished." Stars & Stripes / [Read more](#)

August 15 - Oil spill barriers put on Oder River to tame huge fish kill - German officials expressed mounting anger Monday at the slow flow of information from Poland as experts raced to discover what killed tens of thousands of fish in a shared border river.

German Environment Minister Steffi Lemke demanded a transparent and full investigation into the cause for the massive fish die-off in the Oder River after having met her Polish counterpart in the Polish border city of Szczecin on Sunday evening.

Authorities on Monday were putting up sea barriers usually used during oil spills on the Szczecin Lagoon, where the river runs into the Baltic Sea, to prevent a possible spread of fish carcasses there, the German news agency dpa reported. Lemke also announced the two European Union countries have created a task force with experts to exchange updates on the investigation into the ecological disaster. SWOK News / [Read more](#)

AUSTRALIA: FPSO FORCED TO SHUT DOWN FOR FURTHER REPAIRS AFTER LEAK

August 15 - A problematic FPSO unit located offshore in Australia has been forced to shut down for the second time in recent weeks to undergo repairs after the operator reported a leak in a tank that resulted in an oil spill around the vessel in June. Singaporean company Jadestone Energy said it was suspending production at its Montara oilfield after the discovery of more defects on the Montara Venture FPSO. The Maritime Executive / [Read more](#)

CANADA: JOINT RESPONSE TEAM WORKING ON OIL SPILL SPREADING TO B.C. WATERS

August 15 - Authorities continue to respond to an oil spill between Greater Victoria and Washington state after a fishing boat holding thousands of litres of fuel sank on Saturday.

The boat had about 9,460 litres of diesel in its tank and another 380 litres of oil and hydraulic fluid aboard before it went down. An absorbent boom and other materials have been deployed to recover pollutants and protect environmentally sensitive areas, the American Coast Guard said. Maple Ridge – Pitt Meadows News / [Read more](#)

JORDAN LAUNCHES PROBE INTO OIL SPILL OFF SOUTHERN COAST

August 15 - Jordanian authorities have launched probe into a vessel after it allegedly caused an oil spill on Sunday off the kingdom's southern coast, Trend reports citing Xinhua.

Local authorities are working to contain the oil spill off the coast of the Aqaba container terminal, Jordan's only container port, Nidal Majali, an official with Jordan's Aqaba Special Economic Zone Authority, was quoted as saying by the state-run Petra news agency. Trend News Agency / [Read more](#)

USA: MICHIGAN - CITY OF WAYNE SAYS MOTOR OIL THAT WAS DISCHARGED INTO ROUGE RIVER WAS ACCIDENTAL

August 15 - A local business in Wayne has been identified as the source of an oily substance that was reported in the Rouge River Sunday morning.

A hazmat team responded to reports of an unknown liquid floating in the river in the city of Wayne that first began Saturday and continued through the weekend. The fire department also placed floatation devices designed to catch contaminants in river and lake systems in the river. Fox News / [Read more](#)

NIGERIA: SHELL CONFIRMS SPILL IN RIVERS COMMUNITY

August 16 - Shell Petroleum Development Company of Nigeria Limited has confirmed discharging five barrels of crude oil from the Trans Niger Pipeline (TNP) into Bodo community in Gokana Council of Rivers State.

The information was contained in a Joint Investigation Visit (JIV) report signed by the host community, National Oil Spill Detection and Response Agency (NOSDRA), State Ministry of Environment and SPDC. "Cleanup of the impacted area and repair work on the pipeline are under way." Guardian NG / [Read more](#)

SPAIN: CANARY ISLANDS - VIDEO: FEARS OF OIL SPILL AS DREDGER GROUNDS

August 17 - The Port Authority of La Palmas in the Canary Islands is scrambling with the assistance of Salvamento Marítimo to respond to a small dredger that grounded on the coast of La Isleta, on Tuesday. Salvage operations have been complicated by high tides and strong waves which damaged the hull of the vessel.

According to Ibarra., more than 6,000 liters of diesel had been removed from the Mimar Cinco, by Wednesday morning. In an odd twist of fate, the vessel that had been hired to clear shipwrecks may well have become one herself.

The Maritime Executive / [Read more](#)

EGYPT: OIL SPILL FROM GULF OF AQABA REACHES ASSALAH BEACH IN DAHAB

August 17 - Dahab, a small Egyptian town located on the Gulf of Aqaba – bordered by Egypt, Jordan, Israel and Saudi Arabia – has been impacted by a significant oil spill. According to a statement released by the Ministry of Environment on 17 August, the spill has also affected the El-Garden, El-Asla and Zarnouq areas in Dahab, South Sinai.

"We're analysing a sample of the pollution and identifying the spectral fingerprint to pinpoint the culprit and take legal measures," stated Minister of Environment Yasmine Fouad, who added that oil waste containment efforts were underway, with four tons of oil waste already recovered and transposed to a landfill. Egyptian Streets / [Read more](#)

USA: TEXAS - COAST GUARD WORKS TO CONTAIN 420-GALLON OIL SPILL



Photo: The U.S. Coast Guard responded to a reported oil spill in Tabbs Bay near Houston. U.S. Coast Guard

August 17 - The U.S. Coast Guard is containing a reported oil spill of around 420 gallons in Tabbs Bay near Houston, according to a news release on Tuesday, August 17.

More than 2,000 feet of hard boom and sorbent boom have been placed around the affected areas to contain and recover oil products.

Pollution responders are overseeing a timely cleanup of the oil to mitigate environmental impacts through its coordination with partner agencies and the continued assessment of shorelines and waterways.

My San Antonio / [Read more](#)

USA: OHIO - EPA CLEANING UP NONTOXIC SOYBEAN OIL SPILL IN GRAND RIVER IN LAKE COUNTY

August 17 - The Ohio Environmental Protection Agency is currently working to contain and clean up a soybean oil spill that contaminated the Grand River over the weekend. According to the Ohio EPA, between 400 and 500 gallons of soybean oil was released into the river and another 1,000 to 2,000 gallons spilled onto the ground.

"The spill occurred during a cleaning operation, when a pump was left on and overflowed a wastewater retention pond, spilling into a ditch, which flowed into a storm drain, and ultimately flowed into the Grand River," the Ohio EPA said. The company that owns Erie International said it took immediate action following the spill and contacted a waste management company and local authorities. ABC News 5 / [Read more](#)

JAPAN: VESSEL COLLISION CAUSES OIL LEAK

August 20 - Chinese cargo ship sinking after collision with Japanese tanker, Japan VIDEO - Chemical tanker RYOSHIN MARU collided with Chinese general cargo ship XIN HAI 99 at around 0200 Tokyo time Aug 20 some 2 nm off Kushimoto, Wakayama Prefecture, southeast Honshu. Ships were sailing in opposite directions, tanker bow struck cargo ship in starboard superstructure area, hull was breached, engine room flooded, XIN HAI 99 developed aft tilt and starboard list. XIN HAI 99 either managed under own power, or was towed/escorted, into a bay off Shinomisaki, probably intentionally grounded to avoid sinking. Fuel leak reported, CG is responding, to curb the leak. Maritime Bulletin / [Read more](#)

NOTE: 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/>

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