

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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ARCTIC OCEAN NOW HAS PLASTIC POLLUTION COMPARABLE TO DENSELY POPULATED REGIONS

An international review study of Arctic waters has found large quantities of microplastics across the region.

Researchers from the Alfred Wegener Institute (AWI) have conducted a ground-breaking investigation into the spread of plastic pollution to the world's High North, with alarming results.

Between 19 and 23 million metric tonnes of plastic enter the world's waters each year, and it has long been understood that even remote areas are falling victim to this pollution, with materials carried on tides, particles present in the air, and waste and spillages from shipping routes helping spread the problem. Almost all marine organisms in every ocean have come into contact with plastic debris and microplastics, with experts now clear the Arctic is no different.

'The Arctic is still assumed to be a largely untouched wilderness,' said AWI expert Dr Melanie Bergmann. 'In our review, which we jointly conducted with colleagues from Norway, Canada and the Netherlands, we show that this perception no longer reflects the reality. Our northernmost ecosystems are already particularly hard hit by climate change. This is now exacerbated by plastic pollution. And our own research has shown that the pollution continues to worsen.'

Rivers, the seabed, beaches, and water column were all found to have similar levels of plastic pollution compared to densely populated regions of the world. Local and distant sources are believed to be responsible, with the Atlantic, North Sea, and North Pacific essentially acting as massive plastic-filled tributaries.

Other major contributing factors include microplastic particles being carried northwards in the air, and concerns have also been raised about the impact of rivers. The Arctic itself is only home to 1% of the planet's fresh water streams, but it receives around 10% of global water discharge from rivers in nearby areas. Environment Journal / [Read more](#)

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INTERNATIONAL NEWS (CONTINUED)

ISCO NEWS

SOURCING NATIONAL NEWS FOR THE ISCO NEWSLETTER

In gathering news items for inclusion in the section “News Reports from Around the World” your editor makes a weekly visit to most of the websites listed at <https://spillcontrol.org/national-organizations/>

This list was created quite a long time ago and is in need of updating. Readers of the newsletter are invited to make recommendations for making additions to the list, especially in regard to sites of national organisations of countries that are not currently represented in the listing.

Your assistance will be very much appreciated and will be of positive help in ensuring that more of our readers will be able to read news reports that are relevant to their own countries. Please send your recommendations to John.mcmurtrie@spillcontrol.org

ISCO CONGRATULATES STUDENT MEMBER ON HER ACHIEVEMENT

ISCO is pleased to offer its warm congratulations to Larissa Montas on having completed her dissertation submission and having successfully defended her dissertation/oral examination. She will soon graduate with the award of PhD from the University of Miami's Civil, Architectural, and Environmental Engineering Department. Her dissertation can be viewed at <https://spillcontrol.org/2022/02/28/student-presentation-use-of-a-3-d-fate-and-transport-model-to-estimate-age-at-sea-and-pah-depletion-of-weathered-oil-slicks/>

MORE INTERNATIONAL & REGIONAL NEWS

SCIENTISTS CALL FOR A LIMIT ON PLASTIC PRODUCTION TO ADDRESS POLLUTION



Photo courtesy Ocean Cleanup

May 1 - Now, after the United Nations' historic decision to adopt a global treaty to end plastic pollution earlier this year, governmental negotiations on the agreement are set to begin on May 30th. These will foster intense debates on what kind of measures will be needed to end the pollution of the air, soils, rivers and oceans with plastic debris and microplastics.

In a letter to the journal Science, an international group of scientists and experts now argue for tackling the issue right at the source, by regulating, capping, and in the long term phasing out the production of new plastics. “Even if we recycled better and tried to manage the waste as much as we can, we would still release more than 17 million tons of plastic per year into nature,” says Melanie Bergmann of the German Alfred Wegener Institute, the initiator of the letter. “If production just keeps growing and growing, we will be faced with a truly Sisyphian task,” she adds. The Maritime Executive / [Read more](#)

OIL SPILL RESPONSE EXPERIENCE AND CAPACITY

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HOW ITALY AND CROATIA ARE FIGHTING AGAINST MARINE POLLUTION

May 4 - Thanks to the EU's Interreg PEPSEA project, Italy and Croatia are working closely together to protect the marine ecosystems in the Adriatic Sea.

Adriatic enclosed parts of sea (EPSs), such as bays, channels and lagoons, are often places of frequent sea traffic with consequent high risk of sea pollution by oils and hazardous substances, but there are no specific response protocols for EPSs which, due to different morphological and dynamic water characteristics, require an appropriate approach. There are several officially recognized response centres for the management of these pollution cases but, currently, none of the response strategies are valid both for Italy and Croatia.

The main goal of the Interreg PEPSEA project (Protecting the Enclosed Parts of the Sea in Adriatic from pollution) is to develop solutions for pollution events in this EPSs area through emergency interventions and recovery measures to prevent natural and man-made disasters and to reduce the impact when the ones occur.

The project is funded by the Interreg Italy-Croatia CBC Programme 2014-2020 and sees the collaboration of eight Italian and Croatian partners led by the Development Agency of Zadar County - Zadra Nova (Project Lead Partner). Parliament / [Read more](#)

IPIECA: SUSTAINABILITY ARTICLE ROUND-UP: APRIL 2022

The Ipieca sustainability article round-up showcases recent sustainability-related achievements, projects and news from Ipieca members and organization--s that Ipieca partners with, demonstrating their commitment to advancing environmental and social performance across the energy transition and achieving the UN Sustainable Development Goals.

The April round-up features a range of member initiatives, investments and collaborations across Ipieca's four strategic pillars of climate, nature, people and sustainability. We also highlight Ipieca's relationship with the United Nations, sharing insights from the 5th UN Environment Assembly as well as Ipieca's role in supporting the Glasgow Climate Pact. IPIECA / [Read more](#)

IOPC FUNDS - VISIT FROM THE UNIVERSITY OF DEUSTO



May 4 - On 4 May 2022, the IOPC Funds welcomed postgraduate students in the Port and Maritime Business Management and Maritime Law Masters programme from the University of Deusto, Spain.

Head of the Claims Department, Liliana Monsalve, presented on the international liability and compensation regime and introduced the types of claims that could be admissible under the Conventions. The presentation addressed key points related to the 1992 Civil Liability and Fund Conventions, which gave the postgraduates an opportunity to expand their knowledge of the maritime industry at an international level. IOPC Funds / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

CHILE: 850 KILOS OF GARBAGE COLLECTED FROM BEACH CLEANING IN LOTA

April 28 - With the aim of raising awareness about the care of the environment, about 60 volunteers participated in a day of beach cleaning and recovery of public spaces held on the beach of "Lota Bajo", located near the Muelle Artesanal.

The activity was organized by the Captaincy of Puerto de Lota and was attended by students from the Ángel de Peredo and Santa María Schools, as well as volunteers from the Municipality of Lota, the Lota Protein company and the fishermen's union of the commune. Armada de Chile Directemar / [Read more](#)

CROATIA: CO-ORDINATION MEETING OF COUNTY OPERATIONAL CENTERS



May 4 - For the fourth year in a row, ATRAC brought together the County Operations Centres (COCs) and the Ministry of the Sea, Transport and Infrastructure at the Coordination of COCs. This year's Coordination was held in cooperation with the Dubrovnik-Neretva County in the city of Orebic from 27 to 28 April 2022. The representatives of the COCs of the Primorje-Gorski Kotar, Lika-Senj, Zadar, Sibenik-Knin, Split-Dalmatia, and Dubrovnik-Neretva counties were present. The coordination, like the previous three, was supported by the Ministry of the Sea, Transport, and Infrastructure with the active participation of representatives of the Maritime Safety Directorate. ATRAC / [Read more](#)

ECUADOR: AUTHORITIES AND COMPANIES THREATEN THE AMAZON AND ITS INDIGENOUS PEOPLES

May 4 - Authorities and companies in Ecuador threaten the Amazon through legislation, policies and extractive projects (mainly oil and mining) that have not obtained the free, prior and informed consent of Indigenous Peoples or that have affected their territories, environment, health, water or food, Amnesty International said today, as it released the report Ecuador: Amazon at risk.

"Ecuador must guarantee the consent of Indigenous Peoples to legislation, policies and projects that may put their existence at risk. The Amazon is also a critical ecosystem for overcoming the climate crisis that threatens all life on our planet, and Indigenous Peoples have protected it for centuries. We cannot turn our backs on them," said Fernanda Doz Costa, deputy director of research for the Americas at Amnesty International. Amnesty International / [Read more](#)

FINLAND: THE SIGNIFICANT ROLE OF VOLUNTEERING IN MONITORING LITTER

May 5 - The Finnish Rotary and the Governing Body of Suomenlinna are taking part in the monitoring and research work being carried out by the Finnish Environment Institute SYKE on the quantities, types and sources of litter. The Rotary members are committed to counting and classifying all litter from Patterilahti, Susisaari in Suomenlinna, a UNESCO World Heritage Site near Helsinki.

The tracking of litter in Patterilahti is part of extensive national monitoring of beach litter. Currently, litter is monitored in Finland three times a year on 14 different types of seashore. During monitoring, all litter 2.5 cm in size and larger in the research area is counted and classified. SYKE is responsible for national beach litter monitoring, which is carried out by Pidä Saaristo Siistinä ry (the Keep the Archipelago Tidy Association) through citizen networks.

"The active participation of citizens plays an important part in the monitoring and research work on the sources, quantities and types of litter.

The Finnish coastline is long, which is why residents are needed for both monitoring and cleaning up beaches. The Rotary members' monitoring provides an opportunity to look into the types of litter that maritime currents carry near a large city and to gain a better understanding of the sources of litter. We do not have exact information about the overall situation of the environment becoming littered or the amount of litter in the sea produced by various human activities on an industry-by-industry basis," says Senior Research Scientist **Sanna Suikkanen** from the Finnish Environment Institute. SYKE / [Read more](#)

GREECE: HELMEPA SCHOLARSHIPS ANNOUNCEMENT 2022-2023

May 2022 - The Hellenic Marine Environment Protection Association - HELMEPA announces for the Academic Year 2022-2023 scholarships for postgraduate studies at Master's level, full-time attendance and attendance with physical presence, in Universities in Greece or in a member country of the European Union and / or Great Britain. HELMEPA / [Read more](#)

INDONESIA: INSTALLATION OF THE TSUNAMI EARLY WARNING SYSTEM FOR THE ANAK KRAKATAU VOLCANO

May 1 - On 1st May 2022 a collaboration between BMKG, BRIN, BAKTI, PVMBG, BKSDA (MoEF), HUBLA (MoT), IATSI, Balawista and the JRC led to the installation of a new set of devices in one of the closest islands around the Anak Krakatau Volcano. The instruments measure the sea level and transmit the data in real-time to the server so that in case of abnormal sea level height, they will generate an alert and send an email/SMS to BMKG for further warning decision and dissemination. GDACS / [Read more](#)

NORWAY: NORAD RELEASES NEW KEY FIGURES FOR AID AND SUSTAINABILITY

May 5 - In 2021, Norway provided a record NOK 40.1 billion in aid. How is the money used? How do crises affect developing countries? And what role does Norwegian and international aid play? NORAD / [Read more](#)

PAKISTAN: 'EPA WORKING TO CONTAIN PLASTIC POLLUTION'

April 15 - Pakistan Environment Protection Agency (EPA) is determined to make the capital a plastic bag free city and has permitted the production of plastic bags for specific sectors to reduce plastic pollution through limited use, recycling and safe disposal.

Deputy Director Sadia Munawar told the media on Wednesday that the EPA had imposed a corporate extended responsibility on specified plastic bags users and manufacturers since the users were bound to recycle the consumed plastic bags. She said that corporate officials or entities would have to pay Rs10,000 fee to EPA to receive authorization along with a recycling plan to avail the facility. Express Tribune / [Read more](#)

SRI LANKA: JICA, SLCG PROJECT ON OIL SPILL RESPONSE CAPABILITY IMPROVEMENT

May 7 - The Japan International Cooperation Agency (JICA) will coordinate with the Sri Lanka Coast Guard (SLCG) on a Technical Cooperation Project on Oil Spill Response (OSR) capability improvement.

An agreement in this regard was signed on May 4 between Director General to Sri Lanka Coast Guard Rear Admiral Gewman Ekanayake and JICA Sri Lanka office Chief Representative Yamada Tetsuya at the Coast Guard Headquarters in Wellawatte.

Within a three year duration from year 2022 to 2024, JICA will collaborate with the Japan Coast Guard in dispatching Japanese experts specialized in OSR activities to Sri Lanka to conduct essential training of SLCG staff, while supporting the SLCG to establish an independent and continuous in-house training system and a management system for operation and maintenance of training materials and equipment, further intensifying OSR capabilities of SLCG built through former JICA technical assistance.

Daily News / [Read more](#)

USA: IT WAS A TOXIC WASTELAND. NOW IT'S A NATIONAL PARK.

May 2 - A junkyard that once held rusting cars and thousands of barrels of oozing toxic chemicals just got added to a national park. The former Krejci dump, a 45-acre parcel that operated from 1948 to 1980, opened to the public in December as part of a 200-acre addition to Cuyahoga Valley National Park, a 33,000-acre swath that winds between Cleveland and Akron, Ohio.

Over the past 16 years, this corner of land near the Cuyahoga River was transformed from a Superfund site into a wetland teeming with birds and plants. It's the most extensive and expensive of the hundreds of ongoing reclamation and rehabilitation projects overseen by the National Park Service (NPS) National Geographic / [Read more](#)

USA: OIL TANKER OWNER AND OPERATOR TO PAY \$3 MILLION CRIMINAL FINE FOR OBSTRUCTING JUSTICE AND CONCEALING POLLUTION

May 6 - A U.S. District Court Judge in Delaware has sentenced the owner and operator of a foreign-flag tanker to pay a \$3 million criminal fine for obstructing justice and concealing deliberate pollution from the vessel.

U.S. District Court Judge Richard G. Andrews for the District of Delaware sentenced Liquimar Tankers Management Services Inc. and Evridiki Navigation Inc. after they were convicted at trial on all charges, including violating the Act to Prevent Pollution from Ships, falsifying ships' documents, obstructing a U.S. Coast Guard inspection and making false statements to U.S. Coast Guard inspectors. gCaptain / [Read more](#)

USA: EPA AND ARMY HOST MIDWEST-FOCUSED VIRTUAL REGIONAL WOTUS ROUNDTABLE

May 6 - The U.S. Environmental Protection Agency (EPA) and U.S. Department of the Army (Army) (together, the agencies) will host a virtual Midwest-focused regional roundtable on “waters of the United States” (WOTUS) on May 9, 2022, from 9:30 a.m. to 12:00 p.m. central time. The virtual roundtable hosted by the agencies was organized by the National Parks Conservation Association and is one of ten roundtables selected to highlight diverse perspectives and regional experience on WOTUS implementation.

“As EPA and Army continue toward WOTUS implementation that is durable and protects our water resources, it is essential that we hear from diverse perspectives and understand regional variations in how that plays out. We believe all Americans support clean water and look forward to the interesting dialogue that will be cultivated in these roundtables,” said EPA Assistant Administrator for Water Radhika Fox.

“The Army is looking forward to participating in these regional roundtables, particularly to gain a better understanding of ways to ensure implementation of the definition of WOTUS is clear with the appropriate level of consideration for regional differences and identification of tools that may exist. The Army recognizes how important communication is to implementing the Clean Water Act and looks forward to the upcoming dialogue,” said Mr. Jaime Pinkham, Principal Deputy Assistant Secretary of the Army for Civil Works. EPA / [Read more](#)

NEWS FROM ISCO MEMBERS

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

REMOTE IN WATER SURVEYS FOR PNG



Photos: Above left – Diver Anthony - In Water Surveys in Papua New Guinea with direct feeds supplied to survey technicians around the world are performed by Pacific Towing’s experienced and Australian trained and certified commercial dive team. Above right - Lae Tanker Assist - Ship owners and operators of PNG flagged as well as international vessels can now benefit from a quicker, cheaper, and logistically streamlined In Water Survey Service.

Melanesian marine services company, Pacific Towing (PacTow), has conducted In Water Surveys (IWS) in Papua New Guinea for more than 10 years. Certified by multiple international survey companies for the supply of IWS of ships and mobile offshore units in the oil and gas sector, PacTow has recently introduced a ‘live video feed’ component to their IWS service.

The majority of IWS’s performed by PacTow’s commercial dive team (also Melanesia’s only permanent commercial diving operation) are conducted on PNG flagged vessels. However, foreign vessels which would normally be surveyed to class in countries such as Singapore or Australia also utilise PacTow’s expertise (e.g., when they experience a technical difficulty or mechanical failure).

General Manager, Neil Papenfus, says that the value adding IWS service that they can now provide (i.e., with a live video feed back to a survey technician located just about anywhere in the world) has been well received. “Clients see the cost and time savings, as well as the logistical benefits of not having to bring a survey technician into the country; this was especially the case over the last couple of years with border closures.”

NEWS FROM ISCO MEMBERS (CONTINUED)

Despite the obvious disruption of COVID-19, Papenfus says a definite upside was the innovation that came with it, such as remote survey apps. “Ship owners and operators wouldn’t be benefiting from the type of in water surveys we’re now doing in remote partnerships with companies such as Lloyd’s Register. Likewise, PacTow wouldn’t be getting as much survey business as a result.”

PacTow is certified to conduct IWS’s on numerous vessel types from tankers to pleasure craft, bulk carriers to cargo vessels, as well as barges and just about everything in between. In addition to Lloyd’s Register, PacTow also conducts IWS’s for vessels in class with American Bureau of Shipping, Bureau Veritas, DNV, Nippon Kaiji Kyokai, and RINA.

Diving Manager, Ricky Leka, confirms that his survey team take approximately half a day to perform a typical IWS. However, additional time is required when defects or abnormalities are detected, and the survey technician requires additional or closer viewing for reporting, or for recommendations for repair.

PacTow divers primarily conduct IWS’s in Port Moresby’s Fairfax Harbour which is where the company is headquartered at its dedicated tug base. The divers are also deployed to other harbours such as in Lae, Madang, Rabaul, and Wewak as dictated by client requirements.

“Our divers are Australian trained and certified and equal to their overseas counterparts” emphasises Leka. “No one knows our waterways, currents, and weather patterns as intimately as our PNG divers.” This nuanced understanding, together with decades of experience, feeds into the commercial dive team’s safety credentials and the long running demand for their services, including in PNG’s oil and gas sector.

The oil and gas sector in PNG is growing and will further expand with increased offshore activity. PacTow’s IWS certifications also applies to mobile offshore units (MOU’s). These are vessels which can be relocated for exploration and production purposes, such as mobile offshore drilling units, and for maintenance and lifting operations. PacTow is perfectly positioned to provide its IWS service to PNG’s oil and gas sector and further grow its oil and gas clientele.

PacTow delivers excellent, reliable, and safe marine services through PNG and the broader Pacific. A well-maintained fleet, as well as a dedicated and exceptionally trained team underpin PacTow’s ongoing expansion and success. PacTow is part of a larger sea and land logistics group wholly owned by Steamships Limited. To learn more about PacTow: www.pacifictowingmarineservices.com.

CONTRIBUTED ARTICLE: 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. We hope that this provides useful information. Merv Fingas, ISCO colleague.

31. THE ROLE OF PREDICTED CHEMOTACTIC AND HYDROCARBON DEGRADING TAXA IN NATURAL SOURCE ZONE DEPLETION AT A LEGACY PETROLEUM HYDROCARBON SITE,

Murphy, C.W.M., Davis, G.B., Rayner, J.L., Walsh, T., Bastow, T.P., Butler, A.P., Puzon, G.J., Morgan, M.J. (2022)
Journal of Hazardous Materials, 430, art. no. 128482,
DOI: 10.1016/j.jhazmat.2022.128482

ABSTRACT: Petroleum hydrocarbon contamination is a global problem which can cause long-term environmental damage and impacts water security. Natural source zone depletion (NSZD) is the natural degradation of such contaminants. Chemotaxis is an aspect of NSZD which is not fully understood, but one that grants microorganisms the ability to alter their motion in response to a chemical concentration gradient potentially enhancing petroleum NSZD mass removal rates. This study investigates the distribution of potentially chemotactic and hydrocarbon degrading microbes (CD) across the water table of a legacy petroleum hydrocarbon site near Perth, Western Australia in areas impacted by crude oil, diesel and jet fuel. Core samples were recovered and analysed for hydrocarbon contamination using gas chromatography. Predictive metagenomic profiling was undertaken to infer functionality using a combination of 16 S rRNA sequencing and PICRUSt2 analysis. Naphthalene contamination was found to significantly increase the occurrence of potential CD microbes, including members of the Comamonadaceae and Geobacteraceae families, which may enhance NSZD. Further work to explore and define this link is important for reliable estimation of biodegradation of petroleum hydrocarbon fuels. Furthermore, the outcomes suggest that the chemotactic parameter within existing NSZD models should be reviewed to accommodate CD accumulation in areas of naphthalene contamination, thereby providing a more accurate quantification of risk from petroleum impacts in subsurface environments, and the scale of risk mitigation due to NSZD.

32. CHARACTERISTICS OF THE ARCHAEL COMMUNITIES IN PETROLEUM HYDROCARBON-CONTAMINATED GROUNDWATER

Li, R., Xiao, X., Zhao, Y., Tu, B., Zhu, X. (2022)
Water, Air, and Soil Pollution, 233 (3), art. no. 69,
 DOI: 10.1007/s11270-022-05544-6

ABSTRACT: Microorganisms play a major role in the natural attenuation of pollutants in groundwater, such as petroleum hydrocarbons. However, there are few studies on the structure and diversity of archaeal bacterial communities in extreme environments formed by petroleum hydrocarbon-contaminated groundwater. In this study, archaeal community composition of five petroleum hydrocarbon-contaminated groundwater wells located at an abandoned chemical factory representing low (0.00 ± 0.01 mg/L), mild (0.59 ± 0.02 mg/L), and high (2.05 ± 0.72 mg/L) concentration of total petroleum hydrocarbons (TPH) was investigated by sequencing microbial 16S rRNA gene amplicons. The results showed that Euryarchaeota and Thaumarchaeota were the main archaeal groups in TPH-contaminated groundwater, which composed 99% of the community abundance. TPH was found to be the dominant factor affecting the diversity and abundance of archaeal communities in high-contaminated wells. Total phosphorus, NO_3^- -N, and pH greatly influenced the archaeal communities in mild-contaminated wells, while low-contaminated wells were mainly influenced by temperature. Our results provided insights into the archaeal community composition of petroleum hydrocarbon-contaminated groundwater.

33. METAGENOMIC AND METATRANSCRIPTOMIC RESPONSES OF CHEMICAL DISPERSANT APPLICATION DURING A MARINE DILBIT SPILL

Cao, Y., Zhang, B., Greer, C.W., Lee, K., Cai, Q., Song, X., Tremblay, J., Zhu, Z., Dong, G., Chen, B. (2022)
Applied and Environmental Microbiology, 88 (5), art. no. e02151,
 DOI: 10.1128/aem.02151-21

ABSTRACT: The global increase in marine transportation of dilbit (diluted bitumen) can increase the risk of spills, and the application of chemical dispersants remains a common response practice in spill events. To reliably evaluate dispersant effects on dilbit biodegradation over time, we set large-scale (1,500 mL) microcosms without nutrient addition using a low dilbit concentration (30 ppm). Shotgun metagenomics and metatranscriptomics were deployed to investigate microbial community responses to naturally and chemically dispersed dilbit. We found that the large-scale microcosms could produce more reproducible community trajectories than small-scale (250 mL) ones based on the 16S rRNA gene amplicon sequencing. In the early-stage large-scale microcosms, multiple genera were involved in the biodegradation of dilbit, while dispersant addition enriched primarily *Alteromonas* and competed for the utilization of dilbit, causing depressed degradation of aromatics. The metatranscriptomic-based metagenome-assembled genomes (MAG) further elucidated early-stage microbial antioxidation mechanism, which showed that dispersant addition triggered the increased expression of the antioxidation process genes of *Alteromonas* species. Differently, in the late stage, the microbial communities showed high diversity and richness and similar compositions and metabolic functions regardless of dispersant addition, indicating that the biotransformation of remaining compounds can occur within the post-oil communities. These findings can guide future microcosm studies and the application of chemical dispersants for responding to a marine dilbit spill. **IMPORTANCE** In this study, we employed microcosms to study the effects of marine dilbit spill and dispersant application on microbial community dynamics over time. We evaluated the impacts of microcosm scale and found that increasing the scale is beneficial for reducing community stochasticity, especially in the late stage of biodegradation. We observed that dispersant application suppressed aromatics biodegradation in the early stage (6 days), whereas exerting insignificant effects in the late stage (50 days), from both substance removal and metagenomic/metatranscriptomic perspectives. We further found that *Alteromonas* species are vital for the early-stage chemically dispersed oil biodegradation and clarified their degradation and antioxidation mechanisms. These findings help us to better understand microcosm studies and microbial roles for biodegrading dilbit and chemically dispersed dilbit and suggest that dispersant evaluation in large-scale systems and even through field trials would be more realistic after marine oil spill response.

34. IDENTIFICATION OF KEY BACTERIAL PLAYERS DURING SUCCESSFUL FULL-SCALE SOIL FIELD BIOREMEDIATION IN ANTARCTICA

Martinez Alvarez, L., Bolhuis, H., Mau, G.K., Kok-Gan, C., Sing, C.C., Mac Cormack, W., Ruberto, L. (2022)
International Biodeterioration and Biodegradation, 168, art. no. 105354,
 DOI: 10.1016/j.ibiod.2021.105354

ABSTRACT: The Antarctic continent is not exempted from anthropogenic contamination. Diesel spills on Antarctic soils occur frequently. There, extreme climate conditions and the scarce infrastructure, cause that few remediation strategies become feasible. Bioremediation has proven to be an effective approach for hydrocarbon-contaminated soils in Antarctica, allowing the removal of up to 80% of the contaminant by biostimulating soil microbial communities in biopiles. However, little is known on the changes that this treatment cause in the microbial communities, and how may this knowledge be used for future bioremediation schemes. In this work, we analyzed the changes in the bacterial community composition of biostimulated (BS) and control (CC) biopiles at Carlini Station (Arg.), Antarctica, from our previously reported "on-site" bioremediation scheme. The results showed that hydrocarbon biodegradation in Antarctic soils was accompanied by a significant change in bacterial community composition, with a progressive differentiation between the treated (BS) and non-treated (CC) systems as a function of time. Microbial diversity decreased in the BS

system due to the enrichment in genera *Pseudomonas*, *Rhodococcus*, and *Rhodanobacter*, that seemed to follow an r/K (or copiotrophic/oligotrophic) strategist dynamic, in which *Pseudomonas* increased significantly at the early stages of the treatment (from initial 23.8% up to 33.2% at day 20, r strategist), while *Rhodococcus* and *Rhodanobacter* (K strategists) became dominant since day

20 and until the end of the experiment (from 5.4% to 2.4% at T = 0 days, up to 17.4% and 14.0% at the end of the experiment, respectively). In the control system, *Sphingomonas* (14.0% at T = 30 days), *Pseudomonas* (10.5% at T = 30 days), and *Rhizorhapis* (9.9% at T = 30 days) were the genera with higher relative abundance during the entire treatment period, with no short-term shifts in dominances and a more diverse and even bacterial community.

35. ASSOCIATION OF DEEPWATER HORIZON OIL SPILL RESPONSE AND CLEANUP WORK WITH RISK OF DEVELOPING HYPERTENSION

Kwok, R.K., Jackson, W.B., II, Curry, M.D., Stewart, P.A., Mcgrath, J.A., Stenzel, M., Huynh, T.B., Groth, C.P., Ramachandran, G., Banerjee, S., Pratt, G.C., Miller, A.K., Zhang, X., Engel, L.S., Sandler, D.P. (2022)

JAMA Network Open, 5 (2), art. no. e220108,

DOI: 10.1001/jamanetworkopen.2022.0108

ABSTRACT: Importance: Exposure to hydrocarbons, fine particulate matter (PM_{2.5}), and other chemicals from the April 20, 2010, Deepwater Horizon disaster may be associated with increased blood pressure and newly detected hypertension among oil spill response and cleanup workers. Objective: To determine whether participation in cleanup activities following the disaster was associated with increased risk of developing hypertension. Design, Setting, and Participants: This cohort study was conducted via telephone interviews and in-person home exams. Participants were 6846 adults who had worked on the oil spill cleanup (workers) and 1505 others who had completed required safety training but did not do cleanup work (nonworkers). Eligible participants did not have diagnosed hypertension at the time of the oil spill. Statistical analyses were performed from June 2018 to December 2021. Exposures: Engagement in cleanup activities following the Deepwater Horizon oil spill disaster, job classes, quintiles of cumulative total hydrocarbons exposure level, potential exposure to burning or flaring oil, and estimated PM_{2.5} were examined. Main Outcomes and Measures: Systolic and diastolic blood pressure measurements were collected during home exams from 2011 to 2013 using automated oscillometric monitors. Newly detected hypertension was defined as antihypertensive medication use or elevated blood pressure since the spill. Log binomial regression was used to calculate prevalence ratios (PR) and 95% CIs for associations between cleanup exposures and hypertension. Multivariable linear regression was used to estimate exposure effects on continuous blood pressure levels. Results: Of 8351 participants included in this study, 6484 (77.6%) were male, 517 (6.2%) were Hispanic, 2859 (34.2%) were non-Hispanic Black, and 4418 (52.9%) were non-Hispanic White; the mean (SD) age was 41.9 (12.5) years at enrollment. Among workers, the prevalence of newly detected hypertension was elevated in all quintiles (Q) of cumulative total hydrocarbons above the first quintile (PR for Q3, 1.29 [95% CI, 1.13-1.46], PR for Q4, 1.25 [95% CI, 1.10-1.43], and PR for Q5, 1.31 [95% CI, 1.15-1.50]). Both exposure to burning and/or flaring oil and gas (PR, 1.16 [95% CI, 1.02-1.33]) and PM_{2.5} from burning (PR, 1.26 [95% CI, 0.89-1.71]) for the highest exposure category were associated with increased risk of newly detected hypertension, as were several types of oil spill work including cleanup on water (PR, 1.34 [95% CI, 1.08-1.66]) and response work (PR, 1.51 [95% CI, 1.20-1.90]). Conclusions and Relevance: Oil spill exposures were associated with newly detected hypertension after the Deepwater Horizon disaster. These findings suggest that blood pressure screening should be considered for workers with occupational hydrocarbon exposures.

36. THE DEVELOPING ZEBRAFISH KIDNEY IS IMPAIRED BY DEEPWATER HORIZON CRUDE OIL EARLY-LIFE STAGE EXPOSURE: A MOLECULAR TO WHOLE-ORGANISM PERSPECTIVE

Bonatesta, F., Emadi, C., Price, E.R., Wang, Y., Greer, J.B., Xu, E.G., Schlenk, D., Grosell, M., Mager, E.M. (2022)

Science of the Total Environment, 808, art. no. 151988,

DOI: 10.1016/j.scitotenv.2021.151988

ABSTRACT: Crude oil is known to induce developmental defects in teleost fish exposed during early life stages (ELs). While most studies in recent years have focused on cardiac endpoints, evidence from whole-animal transcriptomic analyses and studies with individual polycyclic aromatic hydrocarbons (PAHs) indicate that the developing kidney (i.e., pronephros) is also at risk. Considering the role of the pronephros in osmoregulation, and the common observance of edema in oil-exposed ELs fish, surprisingly little is known regarding the effects of oil exposure on pronephros development and function. Using zebrafish (*Danio rerio*) ELs, we assessed the transcriptional and morphological responses to two dilutions of high-energy water accommodated fractions (HEWAF) of oil from the Deepwater Horizon oil spill using a combination of qPCR and whole-mount in situ hybridization (WM-ISH) of candidate genes involved in pronephros development and function, and immunohistochemistry (WM-IHC). To assess potential functional impacts on the pronephros, three 24 h osmotic challenges (2 hypo-osmotic, 1 near iso-osmotic) were implemented at two developmental time points (48 and 96 h post fertilization; hpf) following exposure to HEWAF. Changes in transcript expression level and location specific to different regions of the pronephros were observed by qPCR and WM-ISH. Further, pronephros morphology was altered in crude oil exposed larvae, characterized by failed glomerulus and neck segment formation, and straightening of the pronephric tubules. The osmotic challenges at 96 hpf greatly exacerbated edema in both HEWAF-exposed groups regardless of osmolarity. By contrast, larvae at 48 hpf exhibited no edema prior to the osmotic challenge, but previous HEWAF exposure elicited a concentration-response increase in edema at hypo-osmotic conditions that appeared to have been largely alleviated under near iso-osmotic conditions. In summary, ELs HEWAF exposure impaired proper pronephros development in zebrafish, which coupled with cardiotoxic effects, most likely reduced or inhibited pronephros fluid clearance capacity and increased edema formation.

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/>
- 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

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Recently added to the Upcoming Events page – CISE Hybrid Workshop at European Maritime Day, 19th May, Ravenna, Italy; UN Stockholm +50 Meeting, 2nd to 3rd June, 2022, Stockholm, Sweden

UPCOMING WEBINARS & PODCASTS

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From ISCO Member, HalenHardy - Draining stormwater from secondary containment sumps shouldn't eat up hours of your technician's time. Join us on Wednesday, May 25, 2022 at 10 am EST to learn how to automate this maintenance task with passive oil-water separators that allow clean water to drain while capturing oily sheen and preventing oil and fuel discharges. [More info](#)

Newly added to the Upcoming Webinars Page – From ALGA: PCBs vs Dioxan-like Compounds – What do I need to know? 12th May, 12pm to 1pm AEST; ExxonMobil Oil Spill Knowledge Transfer Webinar No.9: Mr David Dickins (D.F. Dickins Associates) will share his extensive experience on Arctic oil spill response, 9th June 2022 10.00 to 11.15 am Houston Time.

Recently added to the Upcoming Webinars Page - From ISCO member HalenHardy “Draining Stormwater from Secondary Containment Sumps” 10 am EST 25th May; Interspill Inform Clean Seas Webinar Series: Coastal Darkening 1400hrs (BST) 4 May; Marine Debris and Plastic Pollution 1400hrs (BST) 31 May; Emerging Pollutants 1400hrs (BST) 8 June; PEMSEA Ocean & Climate Dialogue, 8th June, 9am to 3pm UTC+8.

MESSAGES FROM EVENT ORGANISERS

PAPER SUBMISSION DEADLINE DATES

AUSTRALIA & NEW ZEALAND – ECOFORUM 2022: May 16, 2022 [More info](#)

CANADA: INTERNATIONAL OIL SPILL SCIENCE CONFERENCE - June 17, 2022. [About IOSSC 2022](#) [Call for Abstracts](#) [Registration](#)

TUNISIA: REGIONAL WORKSHOP ON THE ROLE OF VOLUNTEERS IN POLLUTION RESPONSE ALONG THE COAST AND IN THE SHORELINE – AGENDA RELEASED

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

The agenda of the regional workshop on the role of volunteers in pollution response along the coast and in the shoreline has been released in both French and English versions; that will be held on 10-11 May 2022; at The Russelior Hotel in South Hammamet-Tunisia. [Editor- No URL for downloading the agenda found. To request copy contact houcine.mejri@moig.org.tn] [Registration](#)

USA: CLEAN GULF CONFERENCE & EXHIBITION – CONFERENCE SESSIONS ANNOUNCED

[View Conference Sessions](#) [Register for Clean Gulf](#)

EUROPE: INTERSPILL WEMINARS AND CLEAN SEAS SECTOR-THEMED DAYS

Please [CLICK HERE](#) to register to attend this event at RAI Exhibition and Convention Centre, Amsterdam on 21-23 June. There is a form to fill in which will prompt a request for payment for the options you select.

Interspill Inform Clean Seas Webinar Series - We are running a series of Interspill Inform webinars to support the Sector Themed Days. More details on the Sector Themed Days at Interspill are available at <https://www.interspill.org/about-interspill/industry-sector-working-group-webinars-and-themed-days/clean-seas/>

Dates of the Interspill Inform Clean Seas Webinar series: Coastal Darkening 1400hrs (BST) 4 May, Marine Debris and Plastic Pollution 1400hrs (BST) 31 May, Emerging Pollutants 1400hrs (BST) 8 June These webinars enable these subjects to be discussed in detail with academics, industry and responders involved in presenting. Each webinar will explain the problem, its causes, possible solutions, what actions can be taken and the support industry and governments need to deliver to enable solutions. Attending these webinars is free but involves registration through Eventbrite using the links available on the Upcoming Webinars page at - <https://spillcontrol.org/upcoming-webinars/>

USA: FULL CONFERENCE AGENDA NOW AVAILABLE FOR CLEAN PACIFIC 2022

[View full conference programme](#) [Registration](#)

CANADA: 44th AMOP TECHNICAL SEMINAR ON ENVIRONMENTAL CONTAMINATION AND RESPONSE – PRELIMINARY PROGRAMME RELEASED

The 44th AMOP Technical Seminar on Environmental Contamination and Response will take place from June 7 to 9, 2022. Click on links below -

<https://www.canada.ca/en/environment-climate-change/services/science-technology/arctic-marine-oilspill-program/preliminary.html>

<https://www.canada.ca/fr/environnement-changement-climatique/services/sciences-technologies/programme-deversements-hydrocarbures-mer-arctique/preliminaire.html>

[Registration form: 44rd AMOP technical seminar on environmental contamination and response - Canada.ca](#)

THE NETHERLANDS – 5th PREMIAM CONFERENCE

The 5th Premiam conference will be held on the 22 June 2022 at the RAI, Amsterdam as part of the larger Interspill Conference running between 21-23 June. [More info](#)

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

This is a subscription service. [Have a look to see examples of open tenders.](#)

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/td012022.htm> 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. (Look in “Links for other publications” for the current issue of this publication)

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS (CONTINUED)

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. Publishers are kindly requested to advise the editor john.mcmurtrie@spillcontrol.org if any links are not up-to-date.

Readers wishing to recommend the addition of additional publications should contact the editor.

INCIDENT REPORTS

NEW OIL SPILLS IN PERU AND IMO MISSION REPORT MARE DORICUM TANKER SPILL

Reports received from Carlos Sagrera, ISCO Council Member and Representante ISCO América (habla hispana)



May 2 - A new oil spill has occurred in the Peruvian sea, this time due to the sinking of the VV oil platform belonging to the SAVIA company and inactive after ten years. Known by the name of "Querubin", the oil platform began to sink on Thursday, April 28, in the area known as Mar de Lobitos, about 7 km from the coast in the northern province of Talara, department of Piura, the situation being reported by local fishermen. Once the complaints were made to the environmental authorities (OEFA), the company Savia Perú SAC activated the Contingency Plan and, according to its communications, the situation was controlled through containment, recovery and underwater inspection actions. The Peruvian Maritime Authority (DICAPI) responsible for the Peruvian NCP, activated the local plan of contingency (Capitanía de Talara) and supervised the spill control activities carried out by the company and the authority responsible for energy (OSINERGMIN) was present in the framework of the investigation of the incident. It should be added that the VV Platform is included in the Abandonment Plan for the termination of the Block Z-2B Contract approved by the Ministry of Energy and Mines of Peru.

Peruvian press links and photos are given below

<https://larepublica.pe/sociedad/2022/04/29/piura-reportan-derrame-de-petroleo-en-mar-de-lobitos-lrnd/>

<https://larepublica.pe/sociedad/2022/04/30/piura-se-hunde-plataforma-petrolera-en-el-mar-oefa-osinergmin-talara-petroleo/>

<https://gestion.pe/economia/empresas/savia-continua-inspeccion-para-identificar-causa-de-fuga-de-petroleo-detectada-en-el-mar-de-talara-noticia/>

<https://www.gob.pe/institucion/oefta/noticias/603267-oefta-inicio-supervision-ante-derrame-de-petroleo-en-lobitos>

<https://andina.pe/agencia/noticia-buscan-descartar-derrame-hidrocarburos-tras-hundimiento-plataforma-mar-piura-891049.aspx>

<https://andina.pe/agencia/noticia-talara-savia-peru-asegura-efectuo-limpieza-petroleo-detectado-superficie-marina-891083.aspx>

May 3 - A new oil spill has been reported at the Multibuoy Terminal of the Conchan Refinery (Petroperu company), in circumstances in which the tanker Seaways Leyte (Marshall Islands flag) was unloading crude oil. The refinery and its terminal are located south of the port of El Callao. The complaint was made public on May 1 by the National Maritime Authority (DICAPI) and activated the local contingency plan, as well as the presence of the environmental authorities (OEFA) and the energy sector (OSINERGMIN) that monitored the situation. For its part, the company Petroperú reported on May 3 in a statement that there were no oil slicks in the area. Peruvian press links and photos are given below.

<https://www.dicapi.mil.pe/noticias/derrame-de-hidrocarburos-en-el-terminal-multiboyas-de-conchan>

<https://gestion.pe/peru/lurin-marina-de-guerra-confirma-derrame-de-petroleo-en-la-playa-conchan-dicapi-buque-tanque-seaways-leyte-oefa-rmmn-noticia/>
<https://elcomercio.pe/lima/sucesos/lurin-marina-de-guerra-confirma-derrame-de-petroleo-en-la-playa-conchan-dicapi-buque-tanque-seaways-leyte-oefa-rmmn-noticia/>
<https://www.actualidadambiental.pe/derrame-de-petroleo-en-conchan-aun-se-desconoce-la-magnitud-de-lo-sucedido/>
<https://www.infobae.com/america/peru/2022/05/03/nuevo-derrame-de-petroleo-afecta-playa-conchan-confirma-la-capitania-de-puerto-del-callao/>
<https://andina.pe/agencia/noticia-descartan-derrame-hidrocarburos-terminal-multiboyas-refineria-conchan-891413.aspx>

May 3 - Comments from Carlos – “As you can see, I sent yesterday and today news from Peru with new spills, which is quite normal for complaints to grow after a spill of the size and consequences occurs, such as the one that occurred in January 2002 in the port of El Callao. Public opinion is very sensitive and the authorities themselves become more demanding, which is why transparency is much greater with this type of situation. In the same framework, the IMO sent last week to the Peruvian authorities the report of the IMO Mission in support of the efforts to respond and update the National Contingency Plan of Peru, due to the oil spill at the Terminal Multibuoyos of the La Pampilla Refinery (REPSOL) in circumstances that the Mare Doricum tanker proceeded to unload crude oil on January 15, 2022. This report was expected by the Peruvian authorities and will be presented to the Peruvian Congress, hoping that it will serve to activate some of its necessary recommendations to better prepare Peru for this type of incident”.

GABON: MAJOR OIL SPILL IN CENTRAL AFRICA AVERTED AFTER 300,000 BARRELS LEAKED

May 3 - “A situation of force majeure has been declared in order to secure the facilities and prevent any environmental damage,” reads a statement from Perenco, the company running the facility in Gabon's Cap Lopez region, as per Upstream Online.

As of two days ago, they didn't detect any marine pollution, proving they had moved quickly enough to prevent a serious environmental disaster.

“To date, the teams are hard at work installing floating booms as a preventive measure, pumping the hydrocarbons in the retention tanks and bringing the terminal back into service,” the statement continues. Green Matters / [Read more](#)

May 4 - Gabonese Activists Outraged At Yet Another Oil Spill By Perenco - Late in the morning of April 28, Perenco located a leak in a tank in Cape Lopez containing 50,000 cubic metres of crude oil, or 300,000 barrels. Aerial images taken the morning after the spill by activist Bernard Christian Rekoula show the extent of the damage – two storage tanks are surrounded by a huge pool of crude oil contained in a basin. A vacuum truck is covered with oil and the Atlantic Ocean is only a few metres away. News Azi / [Read more](#)

UK: ENVIRONMENT AGENCY CONFIRM OIL SPILL IN RIVER CALDEW

May 6 - An 'oil spill' in a Carlisle river has sparked fears for the health of wildlife and pets - and led to a clean-up operation by Environment Agency officials. The spill, affecting the waters of the River CaldeW in Denton Holme, was confirmed by the agency yesterday. The CaldeW flows north from the affected site, through Carlisle, joining the Eden at Bitts Park. The extent of the damage caused is unknown at this time. News & Star / [Read more](#)

STOP PRESS – BREAKING NEWS

UN LEADS £65M PLAN TO STOP HUGE OIL SPILL OFF YEMEN DURING FIRST CEASEFIRE IN SIX YEARS

May 8 - The UN is to stage a rare donor conference on Wednesday in a bid to raise the \$80m (£65m) necessary to prevent an ageing oil tanker off the west coast of Yemen exploding and causing an environmental disaster potentially four times worse than the Exxon Valdez spill near Alaska in 1989.

The money is needed to offload more than 1.14m barrels of oil that have been sitting in the decrepit cargo ship, Safer, for more than six years because of an impasse between Houthi groups and the Saudi-backed government over ownership and responsibility.

Under a new agreement, laboriously negotiated over six months by the UN and Dutch diplomats, an international donor conference will aim to raise the required \$80m to offload the light crude oil. The plan is the brainchild of the UN resident coordinator and humanitarian coordinator for Yemen, David Gressly, who claims it has the support of the Saudi-backed and Houthi-backed governments. A memorandum of understanding was signed by the Houthis on 5 March that allows the UN to transfer about 1.1m barrels of oil from the vessel, which is stranded 8km off Ras Isa port on Yemen's Houthi-held west coast. The oil would be transferred to a secure vessel which would remain in place. A new tanker would be purchased for the Houthis within 18 months to replace Safer, thus providing them with the insurance that they would be able to operate a profitable oil export industry when the civil war ends. The Safer vessel would be towed and sold for scrap. The Houthis would have no legal or commercial liability.

The Guardian / [Read more](#)

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- 5. PR, PUBLICITY AND ANNOUNCING NEW PRODUCTS AND SERVICES** - Free publicity – News from ISCO Members - Announce your new products and services developments in the weekly ISCO Newsletter – reaching out to a highly targeted customer audience in over 50 countries. Corporate Members of ISCO can submit news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. It's a cost-effective way to promote your company. Disseminating news about new technical developments is of value to our community. Corporate Members are invited to contribute articles.
- 6. EXHIBITIONS AND CONFERENCES** - Benefit from negotiated discounts in attending conferences and exhibitions – the savings can significantly offset the cost of maintaining your membership.

Promoting ISCO and your company on your exhibition booth - While collecting ISCO Membership Placards at the end of the IOSC exhibition (for later re-issue at other events) a member exclaimed “Oh no, we would like to keep it and put it on our booth at other shows”. Displaying the ISCO Membership Placard on your booth indicates your support of an organization dedicated to improving worldwide co-operation and preparedness.
- 7. ENHANCE RESPONSE KNOWLEDGE OF YOUR STAFF** - To enhance response knowledge of your staff - Freely downloadable technical articles, response guidelines and loads of other useful reference information available in the Members' Area of the ISCO website.
- 8. CURATED NEWS ON ISCO NEWSLETTER** - The ISCO Newsletter keeps you up-to-date on events, developing technologies, new legislation and other matters of mutual interest. This will save many hours a week of scanning, browsing and searching for all the news that matters and puts it in your inbox every week.
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ISCO provides an interface with National and International Government Agencies, Industry, the Scientific Community, R&D Establishments and Academia, actively supporting new developments that will be of benefit to our Members.
- 10. USE OF ISCO LOGO IN PROMOTIONAL MATERIAL** - Members have the right to display the ISCO logo on their headed notepaper, brochures, business cards, etc. to denote that they are part of an international organisation dedicated to improving worldwide co-operation and preparedness.

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