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THE NEWSLETTER OF THE INTERNATIONAL SPILL RESPONSE COMMUNITY

info@spillcontrol.org | www.spillcontrol.org

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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HEADLINE INTERNATIONAL NEWS

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"MARPOL AT 50 – OUR COMMITMENT GOES ON" HAS BEEN CHOSEN AS THE IMO WORLD MARITIME THEME FOR 2023.

'MARPOL at 50 – Our commitment goes on' has been selected as the upcoming theme for the International Maritime Organization's 2023 World Maritime Theme, which will culminate in a World Maritime Day celebration on 28 September. The theme reflects the organization's long history of protecting the environment from the impact of shipping via a robust regulatory framework and emphasizes its ongoing commitment to this important work.

The theme spotlights the International Convention for the Prevention of Pollution from Ships (MARPOL), which covers prevention of pollution of the marine environment by ships from operational or accidental causes.

IMO Secretary-General Kitack Lim said, "A lot has changed in shipping in the 50 years since the MARPOL Convention was adopted on 2 November 1973, and IMO's commitment to protecting and preserving the marine environment has remained unwavering.

The Torrey Canyon oil spill in 1967, the largest oil disaster at the time, was one of the key moments that led to the development of the MARPOL Convention. The 1970s saw increased global awareness of the need to protect the marine environment from all sources of pollution, subsequently resulting in the adoption of the MARPOL Convention and the 1978 MARPOL Protocol in 1973 and 1978, respectively. The combined instrument entered into force on 2 October 1983.

MARPOL 73/78 is the most important international instrument covering prevention of pollution of the marine environment by ships from operational or accidental causes. In 1997, a Protocol addressing prevention of air pollution from ships was adopted and entered into force on 19 May 2005.

Today, MARPOL covers pollution of the sea by oil, noxious liquid substances in bulk, harmful substances in packaged form, sewage from ships and garbage from ships, air pollution from ships, and regulation of energy efficiency. It also allows for the adoption of special areas with even stricter controls on operational discharges. IMO / Read more

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Here is the link for joining this group https://chat.whatsapp.com/KMxdW7lEal79namyNlbV aa

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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 gualifications 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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Professional Membership Application



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ISCO NEWS

REMINDER AND JOINING LINK - POSTPONED 2022 AGM

The delayed AGM is scheduled to take place at 8 pm GMT / 3 pm EST on Thursday 9th February 2023.

It will be a remote meeting carried out using a Zoom platform. The link for joining the meeting will be https://us02web.zoom.us/j/5220550000

All members in good standing (membership fees paid up-to-date) and honorary members (Hon.FISCO) are entitled to vote.

Votes should be submitted no later than the end of the day after conclusion of the AGM. The voting results will be communicated to members as soon as practicable.

The Agenda, Meeting Papers, Addendum and Voting Form were circulated to members by email on 10th January 2023. Any Member who has not received these documents should alert the Secretariat by email to info@spillcontrol.com to request that a copy be sent.

Members are invited to submit details of any additional matters that they would like to be discussed at the AGM. Such submissions should be sent by email to the Secretariat at info@spillcontrol.org in advance of the date of the AGM.

JANUARY 2023 ISCO VOLUNTEERS & MEMBERS ZOOM MEETING

The monthly meeting for January 2023 took place on Thursday 26th January. "Why could we not ship these pesky nurdles as sizeable bricks?" was a suggestion made during a lively meeting. A report will be published ASAP.

NURDLES – NEW PREVENTION AND CLEAN-UP **TECHNOLOGY & ONGOING R&D WORK**

ISCO thanks members and readers who responded to our request for information.

A letter from Mark Orr of the UK & Ireland Spill Association is published on Page 8.

Yet more reports of pollution from nurdles washing up on beaches have been received recently. Previous articles in the ISCO Newsletter have highlighted this very significant international problem. The ISCO Executive Committee is looking into how our organisation can assist by co-operating with others in promulgating better prevention and response capabilities that can be adopted on a worldwide basis. Readers of the ISCO Newsletter are invited to contribute information that can be shared within our community and hopefully improve our capability to counter this pollution in more effective ways. Please send to john.mcmurtrie@spillcontrol.org

INTERNATIONAL & REGIONAL NEWS

COUNTRIES SEARCH FOR FINANCING TO COUNTER **BIODIVERSITY CRISIS**

In January 2023, some of the world's most influential leaders, CEOs and academics are once again congregating in the Alpine resort town of Davos, Switzerland, for the World Economic Forum. Among the issues they are discussing is how to unlock financing to help conserve and protect critical ecosystems, and ward off the looming extinction of one million species.

The discussions come on the heels of last month's United Nations Biodiversity Conference (COP15) in Montreal, Canada where countries adopted the Kunning-Montreal Global Biodiversity Framework, a landmark agreement to address the dangerous loss of biodiversity and restore ecosystems by 2030 while respecting the rights of indigenous peoples and local communities and ensuring full and effective participation of all stakeholders. UNEP / Read more



INTERNATIONAL & REGIONAL NEWS (CONTINUED)

A MILESTONE MOMENT FOR THE EUROPEAN CHEMICALS INDUSTRY: THE EU CHEMICAL INDUSTRY TRANSITION PATHWAY HELPS DEFINE THE SECTOR'S PATH TO 2050

January 27 - Cefic, the European Chemical Industry Council, hails the publication of the EU Chemical Industry Transition Pathway released today by the European Commission as a first-of-a-kind report offering European industry a roadmap towards the EU Green Deal goals.

The European chemical industry has long been asking for a dedicated roadmap to support the biggest transformation in its history; by 2050 the EU chemicals sector will need to become climate neutral, circular, digitalise its processes and transition

to safe and sustainable chemicals. All these actions require tens of billions of additional investments between now and 2050. And this all needs to happen in a very tense geopolitical environment. CEFIC / Read more

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What is the ISCO Newsletter?

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

Through the Newsletter and its other activities, ISCO is disseminating information on new developments - technical advances, legislation, events and other matters that affect the international spill response community.

To receive a copy of the new media pack please contact spillcontrol@mwadigital.com

NEWS REPORTS FROM AROUND THE WORLD

Editor: Many of these reports are gleaned from news provided on the websites of Environment Agencies and other national organisations, some of which are not being well maintained. ISCO does not have the resources to monitor multiple social media platforms. Your editor is grateful to those organisations that directly send him their national news reports of interest to the spill response community.

CANADA INVESTS IN LAKE WINNIPEG BASIN RESTORATION AND PROTECTION

January 17 - Today, Terry Duguid, Parliamentary Secretary to the Minister of Environment and Climate Change, on behalf of the Honourable Steven Guilbeault, Minister of Environment and Climate Change, announced \$1.59 million to support 25 projects under the Lake Winnipeg Basin Program. Working with partners and stakeholders, the Lake Winnipeg Basin Program supports science, action, and collaboration to improve water quality and the ecological health of Lake Winnipeg. The program funds projects focused on three priority areas including nutrient reduction, enhancing collaboration between partners and stakeholders throughout the basin, and engaging Indigenous peoples in freshwater stewardship. Government of Canada / <u>Read more</u>



NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

OVERVIEW OF CANADA'S SINGLE-USE PLASTIC PROHIBITION REGULATIONS

January 23 - Effective December 20, 2022, the Government of Canada has banned the manufacture and import for sale of single-use plastics ("SUP"), including plastic grocery bags, cutlery, stir sticks, and straws through the Single-use Plastics Prohibition Regulations ("Regulations"). In addition to the items mentioned above, foodservice wares made from hard-to-recycle plastics are also banned effective December 22, 2022, while a ban on the manufacture and import of plastic ring carriers (think six-packs of your favourite beverages) will come into effect in June, 2023. Mondaq / <u>Read more</u>

EGYPT: THE MINISTER OF ENVIRONMENT WITNESSES THE SIGNING OF THE PROJECT DOCUMENT TO SUPPORT CIRCULAR ECONOMY PRACTICES IN THE SINGLE-USE PLASTIC VALUE CHAIN

January 22 - Dr. Yasmine Fouad, Minister of Environment, witnessed the signing ceremony of the project document to support circular economy practices in the single-use plastic value chain in Egypt between the Environmental Affairs Agency and the United Nations Industrial Development Organization (UNIDO) as a grant of \$ 3.2 million, in the presence of Mr. Oka Hiroshi, Japanese Ambassador in Cairo, Dr. Ali Abu Sunna, President of the Environmental Affairs Agency, Dr. Tarek El-Araby, Head of the Waste Management Regulatory Authority, and Mr. Ahmed Rizk, Deputy Resident Representative and Supervisor of the UNIDO Office in Egypt. EEAA / <u>Read more</u>

FRANCE: EUROPEAN IRA-MAR PROJECT: ONLINE SURVEY ON PORT PREPAREDNESS



January - French ports concerned by the transport of dangerous goods are invited to contribute to an investigation. We invite all French ports involved in the trafficking of hazardous materials to contribute to a survey on the fight against accidental pollution by oil and chemicals in ports, by completing this online questionnaire.

The IRA-MAR project "Improving the Integrated Response to pollution Accident at sea & chemical risk in port" co-funded by the European

Commission (DG-ECHO) and coordinated by the General Secretariat for the Sea aims to support the riparian countries of the western Mediterranean basin and the Atlantic (Spain, France, Italy, Malta, Morocco, Portugal and Tunisia) in order to improve preparedness and risk control systems. pollution, particularly related to the traffic of dangerous substances in ports. CEDRE / <u>Read more</u>

FRANCE: PLASTIC BEAD POLLUTION ON ATLANTIC BEACHES, "AN ENVIRONMENTAL NIGHTMARE"

January 23 - Small pieces of plastic have landed in recent weeks on French beaches on the Atlantic coast. These pellets are very difficult to eliminate and pollute infected places for a long time.

Tiny pieces of plastic have washed up on beaches in Loire-Atlantique in recent weeks, prompting strong protests from local authorities and environmental protection groups. The Minister of Ecological Transition spoke Saturday of "environmental nightmare", declaring that the State had "decided to file a complaint" to stop this pollution. BFMTV / <u>Read more</u>

GREECE: NEED FOR MORE TRAINING AND NEW SKILLS FOR THE GREEN TRANSITION AND MARITIME SAFETY

January 23 - The need for further education and training of seafarers for the green and digital transition but also the commitment to broad cooperation of the wider Greek shipping community to address common challenges through the sharing of know-how, experience and good practices (best practices) were highlighted by the qualitative elements of the HELMEPA Training Program 2022, implemented by its Maritime Training Center, recording 186 hours of training, with the active participation of 160 shipping companies and organizations. HELMEPA / <u>Read more</u>

IRELAND: REGIONAL NETWORKING EVENT IN BELFAST 29 MARCH 2023

January 16 – UK & Ireland Spill Association - There will be a Regional Networking Event in Belfast on 29 March 2023 at the Crowne Plaza commencing 1400hrs.

This is an opportunity for The Association and ISAS to update local members and for members to meet each other informally. We are also keen to hear what members have been up to. We are inviting NI Environment Agency to attend to update us on areas of local concern. There is likely to be a product presentation. Following the meeting, there will be an opportunity to network socially perhaps over dinner in the restaurant. Executive Director, Mark Orr and ISAS Audit and Training Manager, Steve Guy will be attending as well as Board Members for the Association and ISAS. UKAISA / <u>Read more</u>

IRELAND: EPA AWARDS €10.7 MILLION FOR RESEARCH TO SUPPORT ENVIRONMENTAL PROTECTION

January 27 - The Environmental Protection Agency (EPA) has today announced €10.7 million of research funding for 42 research projects addressing climate change and other emerging, complex environmental problems. This funding will contribute to the delivery of high-quality research, evidence-based policy development and further build Irish environmental research capacity. The funding is an important element of the EPA 2030 Research Strategy which delivers essential scientific support for environmental policy development, implementation and broader decision making across four thematic areas:

- Addressing climate change evidence needs,
- Facilitating a green and circular economy,
- Delivering a healthy environment,
- Protecting and restoring our natural environment.

EPA / <u>Read more</u>

JAPAN: PAJ OIL SPILL WORKSHOP 2023 – "LATEST CHALLENGES FOR MAJOR OIL SPILL RESPONSE"

Date : February 22nd (Wednesday) 2023 Venue : International Convention Hall,

2nd Floor, Keidanren Kaikan 1-3-2, Ohtemachi, Chiyoda-ku, Tokyo 100-0004

Format: Virtual on line with limited physical attendance. Language : English & Japanese (with simultaneous interpretation) This year Petroleum Association of Japan plans to hold the 10th Oil Spill Workshop to discuss the "Latest Challenges for Major Oil Spill Response". During the last 3 years the COVID situation has been the major focus on our daily lives and how we do our jobs. Whilst that situation is largely now under control, our focus turns to the new challenges facing our industry which is constantly trying to prevent and limit environmental damage. One of the ways we do that is by learning from the experiences of others and industry professionals in these regular workshops. Petroleum Association of Japan / <u>Read more</u>

NIGERIA ACTS TO FIGHT GROWING E-WASTE EPIDEMIC

January 23 - The Nigerian Government has taken an important step towards sustainable waste management, with amendments to national environmental regulations to tackle the country's growing e-waste problem. Nigeria is the leading importer of electrical and electronic equipment on the African continent, processing over half a million tons of discarded electronics each year. Approximately 100,000 people work in the country's electronics recycling sector, providing an important source of livelihoods. However, this comes at a cost, as breaking down electronic equipment releases persistent organic pollutants (POPs) and mercury, harmful chemicals which pose risks to human health and the environment. GEF / Read more

SRI LANKA: GRAPPLING WITH THE BIGGEST MARINE PLASTIC SPILL IN HISTORY

January 22 - The wreck of the X-Press Pearl unleashed a record 1,680 metric tons of plastic pellets on Sri Lanka's coast in 2021. Scientists want to understand more about the effects of this poorly studied type of marine pollution.

"There's no compensation scheme in place for an accident like this, no mechanism to guarantee restitution," IPEN's Karlsson says. "These accidents have massive impacts on coastal communities, and they have to bear the brunt of the cleanup and the consequences."

The initial cleanup effort after the accident was massive, involving 18,973 people by June 14, 2021, according to a United Nations Environment Programme (UNEP) report. Once government efforts had cleared away much of the visible spilled plastic and other wreckage, such as twisted and burnt metal containers, the beach cleanup got a lot harder.

International shipping regulations ensure compensation for oil spills. When oil is spilled, "you don't have to prove it would cause environmental damage; it's just assumed that it does," Bozzi says. That's not the case for other kinds of spills, he says, "even though other forms of pollution are becoming more common." He says many maritime regulations were written before microplastic pollution was even recognized, so these rules need to be revised.

Karlsson also hopes that the world can learn from the X-Press Pearl disaster and that international shipping laws can be updated before the next time something like this happens. For example, the International Maritime Organization's Hazardous and Noxious Substances (HNS) Convention would ensure liability and compensation for damages from hazardous materials other than oil. But the conditions needed for the convention to take effect—including ratification by 12 countries—have not been met. Only 8 countries have signed the protocol. The HNS Convention would not cover plastic, but it does include other chemicals that were on board the X-Press Pearl.

And the next spill may be sooner than later. "With the increasing size of ships, increasing complexity of cargo, there will continue to be spills and accidents and continued risks to human health and the environment," Karlsson says. Meanwhile, chemists are digging in for years of research on the spilled nurdles' environmental impact. Reddy, Vithanage, and other chemists hope research on the disaster can help advance scientific understanding of the environmental effects of plastic pellet pollution and serve as a case study for how to handle such spills in the future. Chemical & Engineering News / <u>Read more</u> [Thanks to Dr Merv Fingas, Hon.FISCO]

UK: HOW DOES THE POLLUTER PAY IN PLASTIC POLLUTION INCIDENTS?

January 24 - In the Guardian today is a piece entitled 'France to take legal action over 'nightmare' plastic pellet spill'

It is great that national and local government is engaged in this continuing pollution of their beaches, rivers, and estuaries by plastic nurdles being washed up onto their shores.

These nurdles are probably leaching out of containers lost from vessels at sea which have sunk to the seabed. They eventually break up and are slowly releasing the contents onto the Brittany shores. A container contains a billion nurdles most of which are buoyant so they will be carried ashore by wind and tides. Nurdles are the raw material in the production of plastic. In 2020 it was estimated that worldwide some 367 million tonnes of plastic were produced with this expected to double in the next 20 years. Through lack of governmental control on the use of plastic, poor cultural attitude toward its disposal, lack of interception systems on land and lack of biodegradable alternatives, the UN Environment programme in 2021 estimated that 19-23 million tonnes of plastic will enter aquatic systems annual from the land.

Unless our attitude to plastic changes expect to see more plastic nurdles wash up on our shore. Well-meaning, motivated people will attend beaches and clean up what they can see but it is a small proportion of what has been lost. The majority remains in the ocean leaching the chemicals (many of them toxic) from which they have been produced into the marine ecosystems disrupting their development and health affecting the whole marine ecosystem. The nurdles are being injected by marine mammals who think it is food. In some cases, larger mammals cannot ingest them and they pass through. For smaller mammals over ingestion of nurdles will kill them as they cannot pass through whilst preventing ingestion of food that it needs to live. Whilst the nurdles are in the stomach they release the toxic chemicals from which they were manufactured which are absorbed by the fish. If it is alive when caught we will each ingest those chemicals!

The UK and Ireland Spill Association has a very active Plastic Pollution Working group who are providing guidance through webinars and written papers on all aspects of plastic pollution available at: <u>https://ukeirespill.org/plastic-pollution-working-group/</u> For more information on this incident: <u>visit here.</u> UKAISA / <u>Read more</u>

USA: A NEW EMPHASIS ON MARPOL IS A 2023 WORLD MARITIME THEME

January 19 - Although ship decarbonization targets are a relatively new maritime endeavor, the enforcement mechanisms to combat marine pollution are not new. To address marine pollution, nearly 50 years ago, an international conference was held in 1973, which resulted in the creation of the International Convention for the Prevention of Pollution from Ships, known as MARPOL. Later amended by the 1978 Protocol, the two treaties are collectively known today as MARPOL 73/78. The United States' enactment of MARPOL is known as the Act for the Prevention of Pollution from Ships ("APPS").

The United States government has increasingly pursued maritime violations of MARPOL 73/78 and APPS. Depending on the circumstances, civil or criminal actions may be brought against individuals, as well as the corporate entities that own, manage, or operate the vessels that violate environmental requirements. The investigative and prosecutorial methodology is fairly predictable. A potential violation typically starts with an investigation by the United States Coast Guard into the circumstances of any alleged marine pollution. The Coast Guard may refer certain matters to the Environmental Protection Agency (EPA) for enforcement. In the most serious cases involving knowing violations, the Coast Guard may refer the matter to Department of Justice for prosecution under the applicable statute. Mondaq / <u>Read more</u>

USA: EFFORTS TO REGULATE PLASTIC POLLUTION LIKELY TO INCREASE IN 2023

January 19 - The Biden Administration is rapidly accelerating efforts to develop plastics-related regulations, bolstered by support from congressional democrats, including through legislative mandates passed in the recent FY 2023 omnibus appropriations act.

The EPA, the Department of Interior, the GSA, other federal agencies and state leaders are advancing strategies to reduce single-use plastics products and revise recycling mandates that will have far-reaching consequences for plastics and the U.S. economy.

The EPA recently began funding investments in recycling infrastructure to promote innovations in collecting, sortation and processing technologies.

Public concern regarding plastic pollution in the United States has continued to grow in recent years. While more traditionally centered on unmanaged plastic waste and U.S. recycling capacity, this has evolved to include issues such as microplastics, plastic-related chemicals, ESG and the environmental justice impacts of the plastics industry. In line with this growing concern, regulatory efforts aimed at addressing plastics have accelerated, and there was significant movement toward greater plastics regulation in 2022 at the state, federal and international levels. Mondaq / <u>Read more</u>

USA: 50 YEARS AFTER KERR-MCGEE CLOSED, FINAL CLEAN-UP WILL LET TAINTED WEST CHICAGO LAND BECOME A PARK

January 23 - In a West Chicago neighborhood, an empty field remains blocked off by barbed-wired fencing -- seven years after the last rail car carrying thorium-tainted soil was shipped from the former factory site to a dump in the Utah desert.

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

The Kerr-McGee factory closed in 1973. Fifty years later, West Chicago is still dealing with the scars of industrial pollution: Shallow groundwater beneath the site contains residual contaminants -- in particular, uranium. The contamination will be addressed using the \$36 million left in a trust set up in 2011. The project is seen as the final chapter of a massive cleanup effort to remove radioactive waste from hundreds of homes, waterways, school grounds and Reed-Keppler Park. The total cost is expected to reach \$1.3 billion. Daily Herald / <u>Read more</u>

PEOPLE IN THE NEWS

MS. INGER ANDERSEN OF DENMARK - EXECUTIVE DIRECTOR OF THE UNITED NATIONS ENVIRONMENT PROGRAMME

Following the recommendation of the Secretary-General, after consultation with Member States, the General Assembly confirmed Inger Andersen of Denmark as Executive Director of the United Nations Environment Programme (UNEP) for a further four-year term beginning on 15 June 2023 and ending on 14 June 2027. Ms. Andersen is currently serving her initial four-year term.

Before becoming Executive Director in 2019, Ms. Andersen was engaged in international development economics, environmental sustainability and policy-making for over 30 years. She served as Director General of the International Union for Conservation of Nature from 2015 to 2019. Prior to that, Ms. Andersen was Vice President of the Middle East and North Africa Region at the World Bank (2011-2015) and Vice President for Sustainable Development and Head of the Consultative Group of International Agricultural Research Fund Council (2010-2011), following a long career with the World Bank, the United Nations and NGOs focusing largely on sustainable development in Africa and the Middle East.

OBITUARY

COLIN JAMES

We sadly have to announce the passing of Colin James, one of the early pioneers in the UK of Marine Oil Spill Response training and Oil Spill Contingency Planning.

After a career as a naval officer, Colin moved into the Offshore Industry originally as a ROV pilot, but then moved into the Oil Spill response industry in 1981 upon appointment as Pollution Response and Training Manager at Salvesen Offshore Services in Aberdeen.

After the sale of the Salvesen Company and along with long-time associate Robbie Middleton he joined Briggs Marine Environmental Services at its inception once again serving as training and Contingency Planning manager. Later, Colin studied for, and was awarded an MSc based on a dissertation based on the UK National Contingency Plan. In later life Colin maintained an ad hoc training role working with both Ceto Environmental Services in Aberdeen along with several ex Briggs employees as well as a training consultant with BMT. [Thanks to Robbie Middleton]

NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can by submitting news about new products and services in the "News from ISCO Members" section of the ISCO Newsletter. This is a free facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 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 <u>tohn.McMurtrie@spillcontrol.org</u>

"WE ARE LIMITED BY WHAT WE BELIEVE IS POSSIBLE AND WHAT TARGETS WE SET FOR OURSELVES"



This was 2017.

Our initial intervention to ambitously stop plastics and trash being carried to the sea. To secure an entire river with a floating device designed by us. The sweetener - no fuel required, it worked 24 x 7 on natural flow of water. It was great to see the installations on Google Earth.

#rivercleanup
#oceancleanup
#OBP
#plastics
#sdg

<u>#sustainability</u> <u>#floatingtrashbarrier</u> <u>#India</u> <u>#Alphamers</u> <u>#innovation</u>

Thanks to Captain D. C. Sekhar, Member of ISCO Executive Committee. AlphaMERS, https://alphamers.com/

CORRESPONDENCE

REGARDING NURDLES - FROM MARK ORR, CEO OF UK & IRELAND SPILL ASSOCIATION

Further to your article in ISCO News I write to make you aware of this group formed by members of the UK and Ireland Spill Association.

It was initially formed in early 2001 in response to a number of smaller nurdles spills that impacted our coastline which local authorities and the Environment Agency (EA) struggled to manages. The EA asked us to develop a nationwide response plans for these smaller incidents, with response time and appropriate equipment, at its essence, so that we could ensure that the nurdles could be collected before being washed back to sea or onto a neighbouring town's beaches.

The Group members have extensive collective experience of these types of spill dating back to MV RENA and most incidents since.

I have attached below a link to a summary of what we are doing and hope that it is useful for your readers.

https://ukeirespill.org/plastic-pollution-working-group/

SCIENCE & TECHNOLOGY

If you are interested in new technology you may 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/

MPRI TECHNICAL REPORT: COMPARING RECENT ADVANCES IN ESTIMATING AND MEASURING OIL SLICK THICKNESS

"On behalf of the Steering Committee, as well as NOAA, BSEE and MPRI, and the Coastal Response Research Center – we are pleased to provide the final technical report on "Comparing Recent Advances in Estimating and Measuring Oil Slick Thickness". This project took an army of generous supporters (AK OSRI, Ohmsett, USCG MER, USEPA, JHU, UNH) along with a fine team of students from UNH and JHU to conduct this thorough workshop, experiment, research and technical report. Special kudos to each of the researchers who shared their technologies, outcomes and expertise on this project."

This report will always be available on our Coastal Response Research Center website and on the CAMPRI Workshop webpage

Abstract

Characterization of the degree and extent of surface oil during and after an oil spill is a critical part of emergency response and Natural Resource Damage Assessment (NRDA) activities. More specifically, understanding floating oil thickness in real-time can guide response efforts by directing limited assets to priority cleanup areas; aid in 'volume released' estimates; enhance fate, transport and effects modeling capabilities; and support natural resource injury determinations.

An international workshop brought researchers from agencies, academia and industry who were advancing in situ and remote oil characterization tools and methods together with stake holders and end users who rely on information about floating oil thickness for mission critical assignments (e.g., regulatory, assessment, cleanup, research). In total, over a dozen researchers presented and discussed their findings from tests using various different sensors and sensor platforms. The workshop resulted in discussions and recommendations for better ways to leverage limited resources and opportunities for advancing research and developing tools and methods for oil spill thickness measurements and estimates that could be applied during spill responses.

One of the primary research gaps identified by the workshop participants was the need for side-by-side testing and validation of these different methods, to better understand their respective strengths, weaknesses and technical readiness levels, so that responders would be better able to make decisions about what methods are appropriate to use under what conditions, and to answer the various questions associated with response actions. Approach: 1) Convene a more in-depth multi day researcher workshop to discuss and develop specific workplan to conduct side-by-side validation and verification experiments for testing oil thickness measurements. 2) Conduct the validation and verification experiments in controlled environments: the Coastal Response Research Center (CRRC) highbay at the University of New Hampshire (UNH); and the Ohmsett National Oil Spill Response Research & Renewable Energy Test Facility.

Publication Date 1-2023 Document Type - Report

Recommended Citation - CRRC, NOAA, MPRI, and BSEE, "Comparing Recent Advances in Estimating and Measuring Oil Slick Thickness: An MPRI Technical Report" (2023). Coastal Response Research Center. 33. <u>https://scholars.unh.edu/crrc/33</u>

Download the MPRI Technical Report

[Thanks to Dr Larissa Montas, Member of the ISCO Executive Committee, for kindly forwarding this item from Kathy Mandsager of the University of New Hampshire.

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.

24. Calibration of an acute toxicity model for the marine crustacean, Artemia franciscana, nauplii to support oil spill effect assessments

Philibert, D.A., Parkerton, T., Marteinson, S., de Jourdan, B. (2023) Science of the Total Environment, 866, art. no. 161270, . DOI: 10.1016/j.scitotenv.2022.161270

ABSTRACT: Oil spill risk and impact assessments rely on time-dependent toxicity models to predict the hazard of the constituents that comprise crude oils and petroleum substances. Dissolved aromatic compounds (ACs) are recognized as a primary driver of aquatic toxicity in surface spill exposure scenarios. However, limited time-dependent toxicity data are available for different classes of ACs to calibrate such models. This study examined the acute toxicity of 14 ACs and 3 binary AC mixtures on Artemia franciscana nauplii at 25 °C. Toxicity tests for 3 ACs were also conducted at 15 °C to evaluate the role of temperature on toxicity. The ACs investigated represented parent and alkylated homocyclic and nitrogen-, sulfur- and oxygen-containing heterocyclic structures with octanol-water partition coefficients (log Kow) ranging from 3.2 to 6.6. Passive dosing was used to expose and maintain concentrations in toxicity tests which were confirmed using fluorometry, and independently validated for 6 ACs using GC-MS analysis. Mortality was assessed at 6, 24, and 48 h to characterize the time course of toxicity. No mortality was observed for the most hydrophobic AC tested, 7,12-dimethylbenz[a]anthracene, due to apparent water solubility constraints. Empirical log LC50 s for the remaining ACs were fit to a linear regression with log Kow to derive a critical target lipid body burden (CTLBB) based on the target lipid model. The calculated 48 h CTLBB of $47.1 \pm 8.1 \,\mu$ mol/g octanol indicates that Artemia nauplii exhibited comparable sensitivity to other crustaceans. A steep concentration-response was found across all compounds as evidenced by a narrow range (1.0-3.1) in the observed LC50 /LC10 ratio. Differences in toxicokinetics were noted, and no impacts of temperature-dependence of AC toxicity were found. Toxicity data obtained for individual ACs yielded acceptable predictions of observed binary AC mixture toxicity. Results from this study advance toxicity models used in oil spill assessments.

25 Long-term patterns of hydrocarbon biodegradation and bacterial community composition in epipelagic and mesopelagic zones of an Arctic fjord

Kampouris, I.D., Gründger, G.F., Christensen, J.H., Greer, C.W., Kjeldsen, K.U., Boone, W., Meire, L., Rysgaard, S., Vergeynst, L. (2023) Journal of Hazardous Materials, 446, art. no. 130656, DOI: 10.1016/j.jhazmat.2022.130656

ABSTRACT: Oil spill attenuation in Arctic marine environments depends on oil-degrading bacteria. However, the seasonally harsh conditions in the Arctic such as nutrient limitations and sub-zero temperatures limit the activity even for bacteria capable of hydrocarbon metabolism at low temperatures. Here, we investigated whether the variance between epipelagic (seasonal temperature and inorganic nutrient variations) and mesopelagic zone (stable environmental conditions) could limit the growth of oil-degrading bacteria and lead to lower oil biodegradation rates in the epipelagic than in the mesopelagic zone. Therefore, we deployed absorbents coated with three oil types in a SW-Greenland fjord system at 10–20 m (epipelagic) and 615–650 m (mesopelagic) water depth for one year. During this period we monitored the development and succession of the bacterial biofilms colonizing the oil films by 16S rRNA gene amplicon quantification and sequencing, and the progression of oil biodegradation by gas chromatography – mass spectrometry oil fingerprinting analysis. The removal of hydrocarbons was significantly different, with several polycyclic aromatic hydrocarbons showing longer half-life times in the epipelagic than in the mesopelagic zone. Bacterial community composition and density (16S rRNA genes/cm2) significantly differed between the two zones, with total bacteria reaching to log-fold higher densities (16S rRNA genes/cm2) in the mesopelagic than epipelagic oil-coated absorbents. Consequently, the environmental conditions in the epipelagic zone limited oil biodegradation performance by limiting bacterial growth.

26 Migration behaviour of LNAPL in fractures filled with porous media: Laboratory experiments and numerical simulations

Shen, H., Huang, Y., Illman, W.A., Su, Y., Miao, K. (2023) Journal of Contaminant Hydrology, 253, art. no. 104118, DOI: 10.1016/j.jconhyd.2022.104118

ABSTRACT: With the increasing requirement of maintaining world energy security and strategic reserves, oil storage and transportation facilities are being built at a large scale. Taking the safe and efficient operation of petroleum storage projects as the goal, a set of experimental apparatus to investigate the migration of contaminants in fractures filled with media was developed to predict and evaluate the environmental risk of oil contaminants leakage. A multiphase numerical flow model based on COMSOL was

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

built based on the laboratory experimental model. Specifically, the migration behaviour of Light Non-aqueous Phase Liquid (LNAPL) through a sand-filled fractured medium was studied by laboratory experiments and numerical simulations. Image and chemical analyses methods were used to monitor and study LNAPL migration behaviour for varying grain sizes of porous medium filling the fractures and varying groundwater table elevations. Laboratory experimental results showed that the LNAPL migration velocity in filled fracture network was significantly faster than that in adjoining porous media during the initial stage of infiltration. The migration velocity increased with the relative permeability of filled sand, which was closely related to the Van Genuchten (VG) model parameters α and n. LNAPL migrated downward with the falling groundwater table and became entrapped with the rising groundwater table, and the amount of entrapment depended on VG model parameters. Hydrogeological parameters were calibrated and LNAPL migration in filled fractured media was predicted using the calibrated numerical model. Simulation results revealed that fracture inclination had an important influence on LNAPL migration in filled fractured media and its migration velocity decreased with a decrease in fracture inclination. These research results can be applied to the control and remediation of oil-contaminated sites in fractured rock settings, such as at underground oil storage tanks and caverns, as well as at underground oil pipelines.

27. Food safety concerns on polycyclic aromatic hydrocarbon contamination in fish products from estuarine bays throughout the American continent

de Pinho, J.V., Lopes, A.P., de Almeida Rodrigues, P., Ferrari, R.G., Hauser-Davis, R.A., Conte-Junior, C.A. (2023) Science of the Total Environment, 858, art. no. 159930, DOI: 10.1016/j.scitotenv.2022.159930

ABSTRACT: Estuarine environments are highly productive ecosystems exhibiting high fish biodiversity and richness. Estuarine bays yield significant fisheries catches, making them the target of extractive activities by both artisanal and industrial fisheries. These areas, however, are highly vulnerable to chemical contamination, such as polycyclic aromatic hydrocarbons (PAH) associated with oil spills and other anthropogenic activities, which can jeopardize animal health and consumer welfare. In this context, this systematic review aimed to evaluate PAH levels detected in seafood from estuarine bays throughout the entire American continent and assess potential human health risks. The PICO methodology was applied, and 27 experimental papers were evaluated. The findings indicate that naphthalene and pyrene are routinely detected at high concentrations in several species, such as white mullet and catfish, and that biliary metabolites concentrations tend to be higher than tissue levels. Although the effects of PAH on animal health are well defined due to several decades of assessments, food safety evaluations are still not routine, evidencing a significant knowledge gap and the need for legislative measures based on toxicological data.

28. Tracing the impact and recovery trajectory of oil spill affected tropical rocky intertidal macrobenthic communities using the BOPA index

Mulik, J., Sukumaran, S., Jisna, M.J., Rao, M.N. (2023) Marine Pollution Bulletin, 186, art. no. 114435, DOI: 10.1016/j.marpolbul.2022.114435

ABSTRACT: A yearlong study was conducted to assess the impact of an oil spill on macrobenthos of rocky intertidal zone of Uran, India and its recovery processes, by comparing impacted site with a reference. Immediate acute effects observed were elevated sediment hydrocarbons, absence of macroalgae and amphipods, mass mortality of macrofauna and dominance of the opportunistic nereid, Namalycastis senegalensis. As the hydrocarbons reduced at the impacted site by ~50 % within three months, gradual reappearance of macroalgae and re-colonization of amphipods (51.4 %) and sensitive polychaetes (7 %) indicated that the recovery was well underway. The amphipod, Allomelita pellucida proved to be a potential indicator of oil contamination. BOPA correlated with sediment hydrocarbons and performed effectively as the extant macrobenthic communities had sufficient representation of Polychaeta and Amphipoda. Notwithstanding the distinct initial impacts of the oil spill, comparable macrobenthic assemblages comprised of sensitive species at both sites after a year confirmed complete recovery.

29. Relative sensitivity of hydrodynamic, thermodynamic, and chemical processes for simulating the buoyant multiphase plume and surfacing flows of an oil and gas blowout,

Dissanayake, A.L., Socolofsky, S.A., Gros, J., Jun, I., Zhao, L., Boufadel, M.C., Arey, J.S. (2023) Marine pollution bulletin, 186, p. 114377. DOI: 10.1016/j.marpolbul.2022.114377

ABSTRACT: Deepwater hydrocarbon releases experience complex chemical and physical processes. To assess simplifications of these processes on model predictions, we present a sensitivity analysis using simulations for the Deepwater Horizon oil spill. We compare the buoyant multiphase plume metrics (trap height, rise time etc), the hydrocarbon mass flowrates at the near-field plume termination and their mass fractions dissolved in the water column and reaching the water surface. The baseline simulation utilizes a 19-component hydrocarbon model, live-fluid state equations, hydrate dynamics, and heat and mass transfer. Other simulations turn-off each of these processes, with the simplest one using inert oil and methane gas. Plume metrics are the least sensitive to the modeled processes and can be matched by adjusting the release buoyancy flux. The mass flowrate metrics are more sensitive. Both liquid- and gas-phase mass transfer should be modeled for accurate tracking of soluble components (e.g. C1 - C7 hydrocarbons) in the environment.

30. Fish Fingerprinting: Identifying Crude Oil Pollutants using Bicyclic Sesquiterpanes (Bicyclanes) in the Tissues of Exposed Fish

Spilsbury, F.D., Scarlett, A.G., Rowland, S.J., Nelson, R.K., Spaak, G., Grice, K., Gagnon, M.M. (2023) Environmental Toxicology and Chemistry, 42 (1), pp. 7-18. DOI: 10.1002/etc.5489

ABSTRACT: In the present study, we investigated the possibility of identifying the source oils of exposed fish using ratios of bicyclic sesquiterpane (bicyclane) chemical biomarkers. In the event of an oil spill, identification of source oil(s) for assessment, or for litigation purposes, typically uses diagnostic ratios of chemical biomarkers to produce characteristic oil "fingerprints." Although this has been applied in identifying oil residues in sediments, water, and sessile filtering organisms, so far as we are aware this has never been successfully demonstrated for oil-exposed fish. In a 35-day laboratory trial, juvenile Lates calcarifer (barramundi or Asian seabass) were exposed, via the diet (1% w/w), to either a heavy fuel oil or to Montara, an Australian medium crude oil. Two-dimensional gas chromatography with high-resolution mass spectrometry and gas chromatography—mass spectrometry were then used to measure selected ratios of the bicyclanes to examine whether the ratios were statistically reproducibly conserved in the fish tissues. Six diagnostic bicyclane ratios showed high correlation (r2 > 0.98) with those of each of the two source oils. A linear discriminatory analysis model showed that nine different petroleum products could be reproducibly discriminated using these bicyclane ratios. The model was then used to correctly identify the bicyclane profiles of each of the two exposure oils in the adipose tissue extracts of each of the 18 fish fed oil-enriched diets. From our initial study, bicyclane biomarkers appear to show good potential for providing reliable forensic fingerprints of the sources of oil contamination of exposed fish. Further research is needed to investigate the minimum exposure times required for bicyclane bioaccumulation to achieve detectable concentrations in fish adipose tissues and to determine bicyclane depuration rates once exposure to oil has ceased.

TRAINING COURSES

Training Course Providers – Please check entries below and advise editor on any necessary updates.

USEFUL LINKS

- INTERNATIONAL IMO E-LEARNING PLATFORM e-learning platform
- AUSTRALIA AMOSC <u>https://amosc.com.au/training/</u>
- AUSTRALIA & NEW ZEALAND ALGA <u>https://landandgroundwater.com</u>
- CHINA <u>http://www.sioetc.com</u>
- EUROPE EMSA Academy 2022. Courses Catalogue
- FRANCE CEDRE https://wwz.cedre.fr/Menu-secondaire/A-la-une/Le-calendrier-des-formations-2023-est-disponible
- UK & WORLDWIDE OIL SPILL RESPONSE LTD. <u>https://www.oilspillresponse.com/training/courses/</u>
- UK & WORLDWIDE BRIGGS ENVIRONMENTAL SERVICES LTD. <u>https://www.briggsmarine.com/services/training/</u>
- 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 <u>https://www.ahmpnet.org/events/event_list.asp</u>

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

CERTIFICATE IN MARINE POLLUTION & MANAGEMENT – LLOYD'S MARITIME ACADEMY

Online, 12 weeks, Starts 15th March 2023 Visit website for more info

CERTIFICATE IN ALTERNATIVE FUELS – LLOYDS MARITIME ACADEMY

Online, Starting 25 April 2023 Delivered by digital learning over 14 weeks. Visit website for more info

UPCOMING EVENTS

TO VIEW UPCOMING EVENTS CLICK ON <u>HTTPS://SPILLCONTROL.ORG/UPCOMING-EVENTS/</u>

To see <u>ALL</u> 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 <u>John.mcmurtrie@spillcontrol.org</u>

NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- OSRL Webinar TPR Series "Source Control". 1 February, 1430-1500 GMT
- OSRL Webinar TPR Series "Incident Management System", 15 February, 1430-1500 GMT

UPCOMING EVENTS (CONTINUED)

- Webinar from HalenHardy "Mitigating the Impacts of Stormwater Pollutants", 22 February, 10 am EST
- Gabon OSRL Technical Forum, 23 March 2023
- Japan Hybrid PAJ Oil Spill Workshop 2023 "Latest challenges for major oil spill response" Tokyo. February 22nd 2023
- Ireland UK & Ireland Spill Association Regional Networking Event Belfast, 29th March 2023

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- Canada 45th Technical Seminar on Environmental Contamination & Response, Edmonton, Alberta, 4-6 June, 2023
- Norway NOSCA Seminar 2023, Bodo, Norway, 20-24 March, 2023
- USA Clean Waterways Conference & Exhibition, Denver CO, 11-13 April 2023
- European Maritime Day, Brest, France, 24-25 May, 2023
- UK: Hazmat 2023 Conference, 24-25 May 2023

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

MESSAGES FROM EVENT ORGANISERS

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

NOSCA will arrange the next NOSCA Seminar in week 12/23 (20-24.03.23) in Bodø/Norway. The seminar will focus on following topics:

- Early warning, remote sensing technologies
- Subsea dispersion
- Experiences from recent incidents
- Standardization project

- Technology transfer: From traditional oil spill prevention to combat marine litter
- Observation of OKEA's large scale exercise "Draugen"

Price: NOK 16.500 incl. hotel accommodations and all local transports. Please register by Dec 31, 2022 by using the link below (payment by Paypal) or send an email to <u>info@nosca.no</u> Our main topic will be "Tomorrow's challenges and solutions within oil spill response". Beside of two conference days, the seminar participants will be able to observe the large scale exercise "D1H" which will be carried out by NOFO and OKEA. For more information and registration please read <u>https://www.nosca.no/nosca-seminar/</u>

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

Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13. <u>More News re conference & abstract submission</u> <u>Registration</u> <u>Introduction to the Planning Committee</u> <u>EXHIBIT SPACE AND SPONSORSHIPS ARE AVAILABLE</u> <u>Agenda.</u>

CROATIA: ADRIASPILLCON 2023, OPATIJA, 16th - 18th MAY, 2023

ADRIASPILLCON 2023 will be held in Opatija, Croatia, between 16 and 18 May 2023 and is being organized by ATRAC - Adriatic training end education centre for accidental marine pollution preparedness and response, with the support of the Ministry of Maritime Affairs, Transport and Infrastructure. The Conference, complemented with an exhibition of relevant products and services, aims at providing a forum for exchange of experience and knowledge in the fields of prevention, preparedness for and response to accidental marine pollution by oil and other hazardous and noxious substances (HNS), among the participants from the Adriatic region and their counterparts from other parts of Europe and the Mediterranean.

All the relevant information will soon be available on the Conference website https://adriaspillcon.com/.

CANADA: 45TH AMOP TECHNICAL SEMINAR ON ENVIRONMENTAL CONTAMINATION AND RESPONSE: EDMONTON, 6-8 JUNE 2023

The Seminar provides a forum for professionals working in the field of oil and hazardous materials spills. The forum facilitates the transfer of scientific results and is intended to link research and the operational community. All submitted papers are peer-reviewed by scientific and technical experts. The Technical Seminar features plenary sessions of 10- or 20-minute presentations on spill-related topics including Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE). Sessions will begin at 8:00 a.m. each day. The presentations are followed by a 5- or 10-minute question and answer period. Sessions may also conclude with Speaker's Corner presentations at which results of more recent research can be discussed without an associated paper. Government of Canada / <u>Seminar Information</u>

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

The Australian Institute of Petroleum (AIP) and the Australian Marine Oil Spill Centre (AMOSC) invite you to attend the international oil spill conference for the Asia-Pacific region, Spillcon 2023. Spillcon 2023 will bring together local, regional and global environmental and shipping representatives across industry, government and non-government organisations to provide an avenue

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

to discuss issues including causes and prevention, preparedness, response management and environmental issues. Spillcon 2023 has been confirmed for 11 – 15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. This website will be regularly updated with further information for sponsors, exhibitors and delegates. <u>https://www.spillcon.com/</u>

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

Now Accepting Abstracts for the 2023 CLEAN GULF Conference - The 32nd annual CLEAN GULF Conference is extending an industry-wide call for participation. Prospective speakers are invited to submit a 200-300 word abstract(s) <u>online</u> for consideration by the program committee by Friday, February 24th. All abstracts are reviewed for content and relevance by the planning committee and are selected by consensus.

Now Accepting Reservations for Exhibit Space and Sponsorships for CLEAN GULF 2023 - Make an impact on buyers from oil & gas, maritime, rail, environmental companies and regulatory agencies with an exhibit space or sponsorship at the <u>CLEAN GULF</u> <u>Conference & Exhibition</u>. Attendees at CLEAN GULF are looking for new products, services, and technologies to help them better prepare or respond to a hazardous spill or environmental emergency.

USA: IOSC 2024 CALL FOR PAPERS AND POSTERS REMINDER

The International Oil Spill Conference (IOSC) brings together the broadest range of global oil spill response professionals to discuss the latest research, technology, and resources impacting our community today. Submit a proposal to become a leader at our next convening in New Orleans, Louisiana, May 13 - 16, 2024.

Click on <u>https://ssl.linklings.net/conferences/IOSC/</u> to visit the submission site. Then, select the "Create an Account" tab at the top of the page to begin your submission. All submissions are due April 24, 2023

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

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

JOB VACANCY

USA: DIRECTOR, NATIONAL SPILL CONTROL SCHOOL

TAMU-CC is a dynamic university designated as both a Hispanic-Serving Institution (HSI) and Minority-Serving Institution (MSI) with approximately 11,000 students from 47 states and 54 foreign nations. We employ over 1,400 full-time and 2,000 part-time Islanders (including students/GAs). The University attracts highly talented faculty and staff and offers an array of undergraduate and graduate degrees, including doctoral programs. As a member of the Texas A&M University System, TAMU-CC benefits from a range of resources, increased visibility and influence, and opportunities to collaborate in mutually beneficial ways with peers across member institutions and associated agencies.

TAMU-CC's beautiful campus is located on a 240 acre island on Corpus Christi Bay and was ranked #1 College by the Sea by Best College Reviews. Our natural setting is enhanced by its modern, attractive, and state-of-the-art classroom buildings and support facilities. From our generous benefits package and professional development opportunities, to our retirement programs and our commitment to service excellence, the Island University is an engaging and rewarding place to work.

For more information and details on how to apply, please visit -

https://tamus.wd1.myworkdayjobs.com/en-US/TAMUCC External/job/Corpus-Christi-TX/Director--National-Spill-Control-School R-056071

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THE LITTLE BLACK BOOK OF OIL SPILL CONTRACTORS

Attention Contractors! - Work has started on the 9th Edition, Send us your corrections and additions. For more information, please contact Stewart@cleanupoil.com

INCIDENT REPORTS

INDIA: OPERATION BEGINS TO REMOVE FUEL FROM SUNKEN CARGO SHIP "PRINCESS MIRAL"

January 20 - Steps have been taken to defuel the sunken vessel MV Princess Miral, and the procedure is expected to be done within a month. Safety4Sea / Read more

CANADA: ENGLISH BAY FUEL SPILL COMES AS OTTAWA WORKS ON RECOMMENDATIONS ARISING FROM EARLIER SPILLS

January 23 - A group involving the Coast Guard, province, Vancouver, Richmond and the Tsleil Waututh, Squamish and Musqueam Nations worked with the ship owner to contain the spill. The federal Transport, Fisheries and Environment departments were also involved, along with the Port of Vancouver. The leak had been stopped Sunday morning and a boom is in place to contain any further spills as a cautionary measure, she said. Vancouver Sun / <u>Read more</u> Related report in <u>DH News</u>

IRAN: CONTAINER SHIP CAPSIZED, SANK IN IRANIAN PORT

January 24 - Container ship ANIL capsized and sank in Asaloyeh port, Iran, on Jan 24, during cargo operation. The ship is resting portside on bottom, alongside pier. A number of containers fell into water, and are afloat in harbor. 12 crew are safe. Maritime Bulletin / <u>Read more</u>

January 25 - Containers fall overboard as ship sinks - A Tanzanian cargo ship sank on January 24, in a jetty in the southern Iranian port of Assaluyeh Safety4Sea / Read more

JAPAN: VIDEO: FREIGHTER GOES AGROUND ON JAPAN'S BIGGEST CORAL REEF

January 24 - A Chinese freighter has gone aground on a giant coral reef just off the Japanese island of Ishigaki, an outpost in Okinawa Prefecture located some 125 nm to the east of Taiwan.

The freighter Xin Hai Zhou 2 lost power between Ishigaki and Kohama Island on Tuesday morning, and the crew requested assistance from the Japan Coast Guard at 0905 hours. However, high winds were causing the ship to drift, and it grounded on a reef at about 0930 hours. The Maritime Executive / <u>Read more</u>

FRANCE: AUTHORITIES HUNT FOR SOURCE OF PLASTIC PELLET SPILL

January 24 -- Environmental authorities in France are livid over a wave of plastic nurdles washing up on the pristine shores of Brittany, where the tiny white pellets have become known as the "white tide" or "mermaid's tears." The source vessel is unknown, but local and national officials have asked prosecutors to find and charge the anonymous perpetrator.

The spill off the coast of Brittany is much smaller in scope than the X-Press Pearl disaster, but the pollution is substantial enough to draw the ire of local activists and officials. White beads have been washing up by the thousands in Finistere, Vendee, Loire-Atlantique and Morbihan. Last week, the mayors of the towns of Pornic and Sables-d'Olonne joined the president of Pays de la Loire, Christelle Morancais, in filing a legal complaint against the unknown "X" responsible for the spill.

The officials' working theory is that the spilled nurdles came from a lost container. Ocean carriers are not required to report specific box losses on the high seas, and the source is often exceptionally difficult to trace. Experts from French water pollution institute Cedre have been dispatched to sample the plastic on Brittany's shores and analyze it for clues. The Maritime Executive / <u>Read more</u>

USA: LOUISIANA - KEACHI TRAIN DERAILMENT LEAKS ACID PRODUCTS CAUSES EVACUATION, ROAD CLOSURES

January 28 - A train derailment in Keachi caused residents to evacuate from their homes Friday night. According to the DeSoto Parish Sheriff's Office Facebook page, just before 11 p.m., a train derailed at the railroad crossing on Hwy 5 in Keachi. By 2 a.m. the Louisiana State Police Hazmat team declared a mandatory evacuation of homes within a one-and-a-half-mile radius of the railroad crossing.

Officials concluded a debriefing with the LSP Hazmat team, Union Pacific, and hazmat contractions at 6:30 a.m. Saturday. The preliminary inspection indicates that 16 cars derailed. Two of 16 derailed tank cars are leaking an acid-related product. MSN / <u>Read more</u>

INDONESIA: 1,500 TEU CONTAINER SHIP HARD AGROUND

January 28 - Container ship WAN HAI 215 aground in Singapore Strait off northwest Batam island, since around 1310 LT Jan 28, while en route from Singapore to Batam. Maritime Bulletin / <u>Read more</u>

AUSTRALIA: SEARCH FOR MISSING RADIOACTIVE CAPSULE UNDER WAY

January 28 -The 8mm by 6mm radioactive silver capsule has been unaccounted for since mid January and is believed to have fallen while being transported, officials say. An urgent search is under way in Western Australia after a tiny radioactive capsule was reported to have gone missing while being transported from a mine. It contains the radioactive substance Caesium-137, according to Western Australia's Department of Health. TRTWorld / Read more

INFORMATION FOR ISCO MEMBERS

GETTING A BETTER BALANCE OF NEWS REPORTING IN THE ISCO NEWSLETTER

Your editor does his best to find interesting news from all over the world but it's not easy. Members and other readers are invited to help rectify the balance of world news reporting. News stories from North America, UK, Australia, etc. are much more accessible on the internet than reports from other parts of the world and especially from non-English-speaking countries.

If you are finding that there are no news reports from your part of the world, you can help to correct this. Your editor asks you to share information that will be of interest to our worldwide community.

... AND PASSING ON KNOWLEDGE AND EXPERIENCE

By contributing articles and case histories for publication you can help ISCO achieve its objective of advancing response preparedness, professional development and competency. As the years go by, hard won knowledge and experience is lost as people retire or move on. The benefits of past learning and new R&D work both need to be widely shared.

Articles that pass on valuable know-how are particularly useful – overcoming difficult challenges, innovating, relating what you did, why you did it that way, how you did it and what was achieved.

IS YOUR MEMBERSHIP OF ISCO PAID UP-TO-DATE?

All members are reminded that the publication of the ISCO Newsletter and other activities and services provided by the organization depend on the regular receipt of annual membership dues from our members.

ISCO is grateful to its members who regularly remit their membership fees on time but there are a few of you who have been falling behind with your payments. This creates a great deal of extra work for our Membership Director, Mary Ann Dalgleish, in sending out reminders and chasing up overdue payments.

If you are behind with your payment, please go to <u>https://spillcontrol.org/subscriptions</u> where it only takes a minute to renew your subscription online.

If you are finding it difficult to make your payment, please let us know. ISCO takes a sympathetic view and, rather than strike a member off the register would far rather allow you extra time than have to go through the very considerable amount of work involved in reinstatement of memberships that have been allowed to lapse.

ISCO RESPECTS YOUR PRIVACY - UNSOLICITED MAIL

ISCO does not buy or make use of contact lists offered by data vendors. We do not send out unsolicited promotional mail to ISCO newsletter subscribers. We will only send you the ISCO Newsletter if you are a Member or have subscribed or given your contact information to ISCO. If you would like to receive the ISCO Newsletter you can subscribe online at <u>www.spillcontrol.org</u> If at any time you decide you do not want to continue receiving the Newsletter you should click on the "unsubscribe" button at the foot of the covering letter sent out with each issue of the ISCO Newsletter.

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