

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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IMO LAUNCHES TÜRKIYE/SYRIA EARTHQUAKE FUNDRAISING APPEAL

March 1 - IMO Secretary-General, Mr. Kitack Lim, has launched an Appeal for Funds and a mechanism to facilitate donations to help those impacted by the devastating earthquake that hit Türkiye and the Syrian Arab Republic on 6 February 2023 followed by powerful aftershocks and another earthquake two weeks later.

The United Nations estimates that, to date, tens of thousands of lives have been lost and thousands more have been injured. The UN further indicates that over 18 million people have been affected across southern Türkiye and northwest Syria.

Donations to the IMO fund will be accepted between 27 February and 27 March 2023. Donations will then be sent to the United Nations Secretariat fund to support the provision of experts, emergency relief, food, medical supplies and other life-saving items.

Mr. Lim said: "As part of the UN family, IMO and its membership stand ready to support these efforts and join the call of the UN Secretary-General Guterres to provide funds to facilitate the emergency relief, food, medical supplies, thermal blankets and other life-saving items to the affected areas."

"I am certain that the IMO family will be very generous, and we will be able to transfer a considerable amount to support the UN efforts," he said.

Bank account details for those who wish to donate:

Account name IMO General Fund 1000 GBP

Bank name J. P. Morgan Chase Bank, N.A.

Bank address 25 Bank Street, Canary Wharf, London, E14 5JP, United Kingdom

Bank sort code 60-92-42

BIC (Swift-Code) CHASGB2L

Account no. 41035047

IBAN GB26 CHAS 6092 4241 0350 47

Reference Earthquake Fund

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INTERNATIONAL AND REGIONAL NEWS

LEADERS GATHER AT LONDON EVENT IN SUPPORT OF UN NATURE COP15 AGREEMENT

February 17 - The UK will bring together foreign governments, philanthropy and business leaders to drive forward action to protect and restore nature at an event taking place today (17 February 2023) at Lancaster House, London. The event will help drive delivery of the deal agreed by almost 200 countries at the UN Nature summit in Montreal in December (COP15), which included a framework requiring countries to halt and reverse biodiversity loss by 2030 and to protect 30% of the world's land and ocean by the same date. GEF / [Read more](#)

UN WORLD WILDLIFE DAY

February 27 - On 20 December 2013, at its 68th session, the United Nations General Assembly (UNGA) proclaimed 3 March – the day that the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) was signed in 1973 – as UN World Wildlife Day; to celebrate and raise awareness of the world's wild animals and plants. The UNGA resolution also designated the CITES Secretariat as the facilitator for the global observance of this special day for wildlife on the UN calendar. [More info](#)

MEETING OF THE HEADS AND COORDINATORS OF THE REGIONAL SEAS CONVENTIONS AND ACTION PLANS WITH UNEP EXECUTIVE DIRECTOR

February 28 - On Tue, Feb 21, 2023, the Heads and Coordinators of the Regional Seas Conventions and Action Plans had the privilege to meet with UNEP Executive Director, Ms Inger Anderson. UNEP ED set up the tradition of meeting with the entire team of the Regional Seas Programmes back in 2019 during an annual meeting of the Regional Seas Programmes. Such meetings are vital to ensure effective feedback from the regional intergovernmental mechanisms coordinated by UNEP, as well as the strategic guidance to them by the senior management of UNEP. UNEP / [Read more](#)

ISCO NEWS

In case you missed it, the Draft Minutes of ISCO's Postponed 2022 AGM were posted in last week's newsletter <https://spillcontrol.org/2023/02/26/isco-878-newsletter/>

The ISCO team was shocked to hear about the tragic air accident that resulted in the death of five members of staff of our corporate member CTEH RM. We send our condolences to the families and colleagues of the victims of this dreadful accident. ISCO has sent a donation to the special fund that has been set up to help the bereaved families and you can do this too – For details of how to do this, see Page 18 of last week's ISCO Newsletter. The fundraising opportunity will only be open until the end of this month. <https://spillcontrol.org/2023/02/26/isco-878-newsletter/>

Member of the ISCO Executive Committee, Dr Larissa Montas, has been invited to join the UK & Ireland Spill Association Working Group on Pollution from Microplastics. Read more on Page 6.

ISCO will be represented and will have a booth at the upcoming Clean Waterways Conference and Exhibition being held in Denver, Colorado, USA on 11-13 April. This is a very worthwhile event and we recommend your attendance. See more info under Upcoming Events on the ISCO website at <https://spillcontrol.org/upcoming-events/>

Members of the ISCO Executive Committee, Matthew Sommerville, Hon.FISCO, and Carlos Sagrera, Hon.FISCO, are working in co-operation with ISCO Corporate Member, Oceanpact Servicios Maritimos S.A. on an exciting new ISCO project to organise a Seminar which will take place in Rio de Janeiro, Brazil, later this year.

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NEWS REPORTS FROM AROUND THE WORLD

GUINEA-BISSAU: BOOSTING OIL SPILL RESPONSE PLANNING

February 25 - A workshop has taken place in Bissau, Guinea-Bissau (20-24 February) to improve the country's ability to respond swiftly and effectively in the event of an oil pollution incident. The event was the result of Guinea Bissau's request for help in developing their National Oil Spill Contingency Plan (NOSCP) from the Global Initiative for West, Central and Southern Africa (GI WACAF). It works with governments and industries to enhance oil spill preparedness, response and cooperation. [Mirage News / Read more](#)

INDONESIA: MOL'S SMALLEST SHIP COLLECTS MARINE DEBRIS OFF BALI



MOL demonstrated its debris collection ship in Bali - Photo courtesy of MOL

March 3 - Mitsui O.S.K. Lines, best known for its fleets of dry bulkers and car carriers, has launched possibly its smallest and most unique vessel. The vessel is designed to collect debris from the waters and is part of the company's environmental efforts.

Named Arika, MOL conducted a demonstration of its marine debris collection vessel off the coast of Bali in Indonesia on March 1. The vessel was apparently developed with a Turkish company EPS Marine which pioneered the concept of converting skimmers into boats that could collect debris and trash floating in the water. MOL purchased the vessel through PT MOL Blue Ocean Indonesia, a wholly-owned subsidiary of the MOL Group. In addition to the boat, the company also demonstrated a collection device that is towed across the beach attached to a tractor. [The Maritime Executive / Read more](#)

PAPUA NEW GUINEA: AUTHORITY RUNS OIL SPILL TRAINING

March 3 - A WEEK-long up-skilling training programme has equipped representatives from several organisations to manage aspects of oil spill response incidents, according to the National Maritime Safety Authority (NMSA).

NMSA marine environment and protection manager Pawa Limu said the International Maritime Organisations (IMO) level three oil spill preparedness and response training was essential for the stakeholders to learn and upskill their management of oil spill response incidents. [The National / Read more](#)

USA: EAST PALESTINE RESIDENTS FILE CLASS-ACTION AGAINST NORFOLK SOUTHERN

February 24 - The firm, Johnson and Johnson, is partnering with class-action law firm Hagens Berman on behalf of all residents within 30 miles of the derailment site. The lawsuit specifically invokes the legal doctrine of "public nuisance," the backbone of both the landmark 1990s lawsuits against the tobacco industry and ongoing litigation against opioid manufacturers and fossil fuel companies. Hagens Berman represented the state of Ohio in tobacco litigation as well as an ongoing opioid suit. In addition to punitive damages, the lawsuit also seeks the creation of a fund for medical monitoring, new testing and cleaning procedures and injunctive relief in the form of safety and compliance oversight. [The Hill / Read more](#) [Thanks to John Wardrop, Hon.FISCO]



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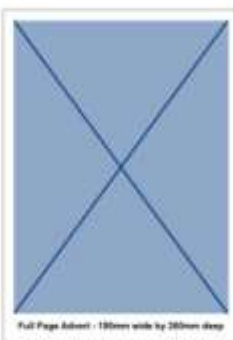
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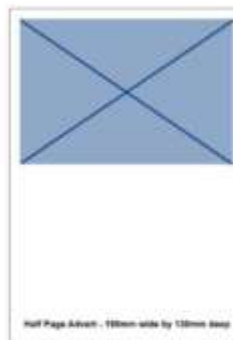
What is the ISCO Newsletter?

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.



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USA: REVEALED: THE US IS AVERAGING ONE CHEMICAL ACCIDENT EVERY TWO DAYS

February 25 - Mike DeWine, the Ohio governor, recently lamented the toll taken on the residents of East Palestine after the toxic train derailment there, saying “no other community should have to go through this”.

But such accidents are happening with striking regularity. A Guardian analysis of data collected by the Environmental Protection Agency (EPA) and by non-profit groups that track chemical accidents in the US shows that accidental releases – be they through train derailments, truck crashes, pipeline ruptures or industrial plant leaks and spills – are happening consistently across the country. The Guardian / [Read more](#)

USA: LATEST NEWS FROM NOAA OR&R

February 27 - Please click on the link below to download and read the latest news from NOAA OR&R

Science is Cool: Honolulu NOAA Staff Engage Students in STEAM

On Feb. 7, NOAA staff joined a group of other local organizations in a night of learning and exploration with students and families at Kapolei Elementary’s STEAM (science, technology, engineering, art, and math) night.

OR&R Staff Present at 2023 Coastal Geotools Conference

Earlier this month, staff from NOAA’s Office of Response & Restoration attended the [2023 Coastal GeoTools\(link is external\)](#) conference in Charleston, South Carolina.

Caribbean Community Members Trained to Monitor Marine Debris with NOAA

Between Feb. 7-11, the NOAA Marine Debris Program, within the Office of Response and Restoration, trained coastal community members from the Caribbean to participate in the [NOAA Marine Debris Monitoring and Assessment Project](#) (MDMAP). The project engages NOAA partners and volunteers around the world to survey and record the amount and types of marine debris on shorelines.

Virtual Public Meeting of the Interagency Marine Debris Coordinating Committee to Be Held March 15

The United States Interagency Marine Debris Coordinating Committee will hold a virtual public meeting on March 15, 2023, from 2 p.m. to 3 p.m. ET. The public meeting will include presentations from the Department of Energy, the National Science Foundation, and the U.S. Agency for International Development on their relevant marine debris-related activities.

Engaging on Marine Debris at Alaska Forum on the Environment

From Feb. 6-10, the NOAA Marine Debris Program, within the Office of Response and Restoration, attended and facilitated marine debris presentation and listening sessions at the Alaska Forum on the Environment.

PEOPLE IN THE NEWS

PROF. MAX MEJIA APPOINTED NEXT PRESIDENT OF WORLD MARITIME UNIVERSITY



Photo courtesy of WMU

February 26 - With the term of Dr. Cleopatra Doumbia-Henry expiring as the President of World Maritime University (WMU) this year, Professor Max Mejia has been selected to take over the position. The Secretary General of IMO Kitack Lim, WMU’s Chancellor, announced the decision this week following the completion of the selection process.

Prof. Mejia, a Philippines national, currently serves as WMU Director of the PhD program and Associate Academic Dean. Formerly, between 2013 and 2016, Prof. Mejia served as the Director General of the Maritime Industry Authority (MARINA), Philippines’ maritime sector regulator. During his tenure, Mejia was the chief architect and implementer of a comprehensive reform of the country’s maritime education, training and certification system. Previously, MARINA lacked a national standard for assessing seafarers’ competency.

Prof. Mejia studied political science at the United States Naval Academy and went on to obtain a Master of Arts in Law and Diplomacy at the Fletcher School at Tufts University. He is also a graduate of WMU, having received another Masters Degree in Maritime Safety Administration in 1994.

Professor Mejia is expected to take over as president of WMU in June, when Dr. Doumbia Henry’s term expires.

The Maritime Executive / [Read more](#)

OBITUARY

MRS. MANDANA MANSOORIAN

February 27 - Mrs. Mandana Mansoorian, Deputy Permanent Representative of the Islamic Republic of Iran to the International Maritime Organization and Vice-Chair of the IMO Technical Cooperation Committee, has passed away.

IMO Secretary-General, Mr. Kitack Lim, paid tribute to Mrs. Mansoorian at the opening of the 9th Session of the Sub-Committee on Ship Systems and Equipment (SSE 9), at IMO Headquarters in London (27 February to 3 March).

“It is with great sadness that we have learned of the passing of Mrs. Mansoorian, who represented the Islamic Republic of Iran at IMO, as Deputy Permanent Representative, since 2015. Mandana was known to all of us as a great friend,” he said.

Mr. Lim commended her commitment to the ideals of IMO, her capable representation of her country, and her work as the Vice-Chair of the Technical Cooperation Committee: “Over the years, her considerate responses, dedication, good collaboration, and constructive approach have been a source of inspiration to many and to me, personally.” IMO / [Read more](#)



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 to John.McMurtrie@spillcontrol.org

MEKE MARINE – SOCIAL RESPONSIBILITY

In addition to all its services and activities, MEKE also works on a variety of issues in order to increase environmental awareness and contribute to the development of sensitive communities. The company is active in telling children about the importance of protecting the sea with the "Association of Marine Protectors" where it is the founder. The company is also supporting, through use of its boats, the studies conducted to improve seas and other water resources. In this context, the company aims to increase its support to this field by focusing on education, culture-art and environment.

When the terrible earthquake devastated cities in the south of Turkiye, Kerem Kemeli, President of Meke Marine and Member of the ISCO Executive Committee, gave ISCO reassurance that he and his staff were safe and said “everybody left the work and try to help people over there”. <https://www.mekemarine.com>

NURDLES - PREVENTION, CLEAN-UP TECHNOLOGY AND ONGOING R&D WORK

The ISCO Executive Committee is looking into how our organisation can assist by co-operating with others in promulgating better prevention and response capabilities that can be adopted on a worldwide basis. Readers of the ISCO Newsletter are invited to contribute information that can be shared within our community and help to improve our capability to counter this pollution in more effective ways.

ISCO Industry Partner, UK & Ireland Spill Association (UKAISA) has been running a series of excellent webinars about microplastics pollution and has a Working Group devoted to addressing the problems associated with nurdle spillages.

ISCO is delighted to announce our Executive Committee member, Dr Larissa Montas, has been invited to join the UKAISA Working Group (WG). ISCO is very glad to be represented on the WG and looks forward to contributing to its work.

For a long time ISCO has recognised the growing threat posed to the marine and shoreline environment by plastics pollution. Many ISCO members have become increasingly interested in making a contribution to the development of their capabilities in equipment manufacturing, counter-pollution response services, training and consultancy provision. ISCO has reacted in a positive way and has broadened its scope of activity to also address plastic pollution. In the ISCO Newsletter we have been giving more prominence to heightening awareness of the problems being caused by plastic pollution, publicising relevant member activities and aiming to promulgate information on technical developments that can be usefully adopted with benefit to our worldwide community and our environment.

The next UKAISA Webinar is scheduled to take place on 15th March, 2023 and will focus on “IDENTIFYING AND OPERATING EFFECTIVE EQUIPMENT FOR MICROPLASTIC RECOVERY”. This should be of considerable interest to many ISCO members. Details of how to register your attendance are available on the ISCO website and at <https://www.eventbrite.co.uk/e/ppwg-webinar-4-tickets-523437715297?aff=ebdsoporgprofile>

NURDLES - PREVENTION, CLEAN-UP TECHNOLOGY AND ONGOING R&D WORK (CONTINUED)

ISCO's aim is to work with UKAISA and others to help make knowledge about effective microplastics pollution prevention and countermeasures available on a worldwide basis. We will also be advising on relevant technical developments and aiming to promote knowledge sharing in our global community.

Dr Larissa Montas will be leading ISCO's efforts to realise these objectives and will be contributing articles in this section of the ISCO Newsletter.

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/>

SCIENTISTS HAVE INVENTED A WILD WAY TO REMOVE PLASTIC POLLUTION FROM OUR OCEANS WITH EGG WHITES: '99% EFFICIENCY'

[Editor: When I first read this I wondered where we were going to find many billion more hens to provide all these eggs but, not to worry, I think the scientists have found a way to synthesise the materials]

Researchers at Princeton Engineering have [found a way](#) to turn your breakfast food into a new material that can cheaply remove microplastics from our oceans.

[Microplastics](#) are tiny plastic particles that result from both commercial product development and the breakdown of larger [plastics](#). They can find their way into our [food and water](#), causing a variety of health problems. They're also everywhere — it's estimated that there are more than [24 trillion](#) pieces in our oceans.

Using regular, store-bought egg whites, the team at Princeton created an [aerogel](#), which is a lightweight material that can be used for water filtration, energy storage, and thermal insulation. The idea for this process came during lunch, as Craig Arnold, the vice dean of innovation at Princeton, was eating a sandwich.

"I was sitting there, staring at the bread in my sandwich. And I thought to myself, 'This is exactly the kind of structure that we need,'" [Arnold told Phys.org](#).

Egg whites are more complicated than they may seem and can be transformed into interconnected strands of carbon fibers and sheets of [graphene](#), an ultra-thin compound that can ultimately be turned into graphite.

To accomplish this transformation, the researchers freeze-dried the proteins in egg whites, then heated them to 900 degrees Celsius (above 1,600 degrees Fahrenheit) in an environment without oxygen.

In a [paper](#) published in [Materials Today](#), Arnold and his co-authors showed that the resulting material can remove both salt and [microplastics](#) from seawater — with 98% and 99% efficiency, respectively.

The resulting egg white material is inexpensive to produce, energy efficient, and highly effective. [msn.com / Read more](#)

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS



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

This is part of a weekly column which provides the references and abstracts of new peer-reviewed scientific publications on oil spills. These references are selected on the basis of those papers that provide new insights into the fate, effects and control of oil spills. Readers may choose to obtain the full publications and to do so, one of three methods is suggested; contact your library, search the internet with the DOI (digital object identifier) provided, or search the internet for the exact title. These are given in the order of likely success in obtaining the article. Merv Fingas, ISCO Colleague.

53. Factors determining the number of seabirds impacted by oil spills and the success of their rehabilitation: Lessons learned from Namibia and South Africa

Vanstreels, R.E.T., Parsons, N.J., Sherley, R.B., Stander, N., Strauss, V., Kemper, J., Waller, L., Barham, B.J., Ludynia, K. (2023) Marine Pollution Bulletin, 188, art. no. 114708, DOI: 10.1016/j.marpolbul.2023.114708

ABSTRACT: The coastal waters of Namibia and South Africa have an extensive history of oil spills, with 71 recorded up to 2021.

Thirty-nine spills reportedly affected 83,224 seabirds, with African penguins (*Spheniscus demersus*; 91.0 %) and Cape gannets (*Morus capensis*; 8.5 %) most affected. Spills affecting seabirds were caused by unknown sources (46 %), bulk/cargo carriers (43 %), tankers (38 %) and ship-to-ship transfers (14 %). The number of penguins oiled was predicted by the breeding population size within 25 to 75 km, but not the volume of oiled spilled, the month or the year. Rehabilitation records from penguins oiled in spills since 2001 reveal that the day of admission (relative to the start of the spill) was predictive of packed cell volume, body mass, and plasma total solids, with the latter two being predictive of rehabilitation success. Our results highlight the importance of rapid monitoring at colonies to locate oiled birds in the event of spills.

54. Recommendations for advancing test protocols examining the photo-induced toxicity of petroleum and polycyclic aromatic compounds

Alloy, M.M., Finch, B.E., Ward, C.P., Redman, A.D., Bejarano, A.C., Barron, M.G.
(2023) *Aquatic Toxicology*, 256, art. no. 106390, .
DOI: 10.1016/j.aquatox.2022.106390

ABSTRACT: Photo-induced toxicity of petroleum products and polycyclic aromatic compounds (PACs) is the enhanced toxicity caused by their interaction with ultraviolet radiation and occurs by two distinct mechanisms: photosensitization and photomodification. Laboratory approaches for designing, conducting, and reporting of photo-induced toxicity studies are reviewed and recommended to enhance the original Chemical Response to Oil Spills: Ecological Research Forum (CROSERF) protocols which did not address photo-induced toxicity. Guidance is provided on conducting photo-induced toxicity tests, including test species, endpoints, experimental design and dosing, light sources, irradiance measurement, chemical characterization, and data reporting. Because of distinct mechanisms, aspects of photosensitization (change in compound energy state) and photomodification (change in compound structure) are addressed separately, and practical applications in laboratory and field studies and advances in predictive modeling are discussed. One goal for developing standardized testing protocols is to support lab-to-field extrapolations, which in the case of petroleum substances often requires a modeling framework to account for differential physicochemical properties of the constituents. Recommendations are provided to promote greater standardization of laboratory studies on photo-induced toxicity, thus facilitating comparisons across studies and generating data needed to improve models used in oil spill science.

55. Immunofluorescence Visualization of Polycyclic Aromatic Hydrocarbon Mixtures in the Eastern Oyster *Crassostrea virginica*

Prossner, K.M., Small, H.J., Carnegie, R.B., Unger, M.A.
(2023) *Environmental Toxicology and Chemistry*, 42 (2), pp. 475-480.
DOI: 10.1002/etc.5539

ABSTRACT: Bivalve mollusks including oysters have low metabolic potential and are therefore susceptible to accumulating high levels of lipophilic organic contaminants such as polycyclic aromatic hydrocarbons (PAHs). Human exposure to PAHs via consumption of this important commercial shellfish can be a serious public health concern in areas where high PAH contamination exists. Previous PAH immunohistochemical studies have been limited to laboratory-based exposures focusing on one or a few individual PAH compounds. To date, such studies have yet to explore PAH accumulation in oysters, known to have some of the highest levels of PAHs across different food products. Using a monoclonal antibody selective for a range of three- to five-ring PAHs, we present a method to detect and localize complex mixtures of PAHs in oyster tissues via fluorescent immunohistochemistry. Observed immunofluorescence intensity followed a similar trend as measured levels of PAHs in oyster interstitial fluid from PAH-contaminated sites and oysters exposed to the water accommodated fraction of crude oil. This method will be valuable in understanding internal partitioning mechanisms of PAH-exposed oysters and will have important applications in studies on PAH distribution in the tissues of additional organisms for environmental, medical, or veterinary purposes. *Environ Toxicol Chem* 2023;42:475–480.

56. Oil spill response planning in Pacific Canada: A tool for identifying vulnerable marine biota,

Jeffery, S., Hannah, L.C., Herborg, L.-M., St Germain, C.
(2023) *Marine Policy*, 148, art. no. 105466,
DOI: 10.1016/j.marpol.2022.105466

ABSTRACT: Oil spill response planning is crucial for a fast and effective response. During an oil spill, focused biological resources at risk information is required to inform and guide oil spill response. A significant challenge for the initial emergency response phase (0–24 h) is having a consistent and transparent way to quickly identify the marine species that are most vulnerable to the oil spill, while not being reliant on regional experts who may not be available at the time. To address this challenge, biologists at Fisheries and Oceans Canada developed an oil vulnerability framework that has been used to assess vulnerability to oil for species groups

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

using a suite of criteria. In the framework, vulnerability is defined as the degree to which a species group is susceptible to, and unable to cope with, injury, damage, or harm, and is a function of exposure to oil; sensitivity to oil, and recovery potential. Species groups were scored against criteria under these categories to generate a total vulnerability score that has been used to rank the species groups from most to least vulnerable. The framework has been adapted for use in different regions of Canada, but here we describe an application for the Pacific region of Canada, and how environmental response experts are using the results for oil spill planning and response.

57. Photochemical formation of water-soluble oxyPAHs, naphthenic acids, and other hydrocarbon oxidation products from Cook Inlet, Alaska crude oil and diesel in simulated seawater spills,

Harsha, M.L., Redman, Z.C., Wesolowski, J., Podgorski, D.C., Tomco, P.L.
(2023) Environmental Science: Advances,
DOI: 10.1039/d2va00325b

ABSTRACT: Hydrocarbon oxidation products (HOPs) formed from crude oil and diesel were formed from laboratory simulated spills at four different periods (1, 4, 7, and 10 days) under environmental conditions that mimicked those in Cook Inlet, Alaska. Two sets of analyses were performed to identify and characterize the HOPs. The first set of analyses performed was non-targeted and included high-resolution mass spectrometry and fluorescence excitation-emission matrix spectroscopy. Liquid chromatography coupled with an Orbitrap mass spectrometer uncovered that HOPs formed from Cook Inlet (CI) crude oil and diesel are relatively reduced, saturated, and unsaturated compounds. The molecular compositions of HOPs from crude oil are more aromatic, whereas those formed from diesel are more aliphatic. Moreover, molecular signatures of naphthenic acids, a class of toxicants, in HOPs are reported. Six unique chemical features of HOPs were revealed by fluorescence excitation-emission matrix spectroscopy, including two unique petroleum signatures. The parallel factor model for fluorescence excitation-emission matrix spectroscopy accurately tracks temporal compositional changes of HOPs. The second set of analyses was targeted and included the quantification of polycyclic aromatic hydrocarbons (PAHs) and oxygenated polycyclic aromatic hydrocarbons (oxyPAHs) in HOPs using tandem mass spectrometry. Two oxyPAHs, phenanthrenequinone, and 1,4-antraquinone were quantified in HOPs formed from CI crude oil and related to eleven PAHs. The results from this study uncover a comprehensive approach to monitoring compositional changes of hydrocarbon oxidation products in a spill event.

TRAINING COURSES (

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

USEFUL LINKS

- INTERNATIONAL – IMO E-LEARNING PLATFORM [e-learning platform](#)
- AUSTRALIA – AMOSC - <https://amosc.com.au/training/>
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- CHINA - <http://www.sioetc.com>
- EUROPE – EMSA Academy 2022. [Courses Catalogue](#)
- FRANCE - CEDRE - https://www.cedre.fr/en/content/download/10912/file/CalendrierFormation2023_EN.pdf
- UK & WORLDWIDE – OIL SPILL RESPONSE LTD. - <https://www.oilspillresponse.com/training/courses/>
- UK & WORLDWIDE – BRIGGS ENVIRONMENTAL SERVICES LTD. - <https://www.briggsmarine.com/services/training/>
- UK – NCEC HAZMAT ACADEMY – [More info](#)
- USA – TEXAS A&M UNIVERSITY – NATIONAL SPILL CONTROL SCHOOL <https://www.tamucc.edu/research/nscs/>
- USA – MPC, DETROIT - <https://marinepollutioncontrol.com/services/training-and-compliance>
- USA – ALLIANCE OF HAZARDOUS MATERIALS PROFESSIONALS - https://www.ahmpnet.org/events/event_list.asp

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](#)

FRANCE: "Combating accidental oil pollution at sea and on the coast"

There are a few places left. Sign up! A few places are still available for the next session of the training "Combating accidental oil pollution at sea and on the coast" which will take place from 3 to 7 April 2023. Do not hesitate any longer and register. This training is delivered to IMO 2 standard. Find all the information about this training in its dedicated sheet. The next session of this training will take place from 05 to 09 June 2023.

TRAINING COURSES (CONTINUED)

USA: Elastec Fall Workshop, New Harmony, Indiana, 3-5 October 2023. [More Info](#)

UPCOMING EVENTS

TO VIEW UPCOMING EVENTS CLICK ON [HTTPS://SPILLCONTROL.ORG/UPCOMING-EVENTS/](https://spillcontrol.org/upcoming-events/)

To see ALL of the posted events you will need to click on “LOAD MORE” at the foot of each opened “upcoming events” page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event organisers before finalising your attendance plans. Please advise the Editor if any of the entries require correction or updating. If you are holding an event you would like to be featured here, please send details to John.mcmurtrie@spillcontrol.org

MARCH 2023

- **WEBINAR – EM OSR KNOWLEDGE TRANSFER- “OIL SPILL ASSESSMENT AND CLEAN-UP THROUGH THE AGES”, DR ERICH GUNDLACH. 7TH MARCH**
- **USA: FREE NPETE US DOT PHMSA HMIT GRANT HAZMAT REGULATIONS AWARENESS TRAINING WORKSHOP**
- **3/7/2023 » 3/9/2023 LOCATION: CLYDE, NORTH CAROLINA**
- **WEBINAR from UK & Ireland Spill Association – “Identifying and Operating Effective Equipment for Microplastic Recovery”, Wednesday 15th March, 1500 GMT**
- **NORWAY – NOSCA SEMINAR 2023, BODO, NORWAY, 20-24 MARCH, 2023**
- **FRANCE – CEDRE INFORMATION DAY – “Spill Response Training, Responses & Challenges” Tuesday 21st March 2023**
- **WEBINAR FROM ALGA – “MICROPLASTICS POLICIES & RESEARCH AROUND THE GLOBE”, THURSDAY 23 MARCH, 8.00AM – 9.30AM AEDT**
- **GABON – OSRL Technical Forum, 23 March 2023**
- **IRELAND – UK & Ireland Spill Association – Regional Networking Event – Belfast, 29th March 2023**

APRIL 2023 & ONWARDS

- **UK & ONLINE – IMO, IOPC Funds & Transport Canada, HNS Workshop, 3-4 April 2023**
- **OSRL WEBINAR – “SUBSEA RESPONSE READINESS”, WEDNESDAY 5 APRIL, 1400 GMT**
- **WEBINAR FROM UK SPILL & IRELAND ASSOCIATION – “SUSTAINABLE SPILL RESPONSE”, WEDNESDAY 19 APRIL, 1500 BST**
- **CROATIA – ADRIASPILLCON Conference & Exhibition, Opatija, 16-18 May 2023**
- **CANADA – 45th Technical Seminar on Environmental Contamination & Response, Edmonton, Alberta, 4-6 June, 2023**
- **AUSTRALIA – University of NSW, “Bioremediation Symposium”, 7th June 2023**
- **USA – Clean Waterways Conference & Exhibition, Denver CO, 11-13 April 2023**
- **FRANCE - European Maritime Day, Brest, France, 24-25 May, 2023**
- **UK: Hazmat 2023 Conference, 24-25 May 2023**
- **USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023**

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

SOME OTHER INFO AND UPCOMING EVENTS

Details of 7 more webinars from US EPA at <https://clu-in.org/techdirect/td022023.htm>

Australia – April 26 & 27 – PFAS Training & Workshop, University of Technology, Sydney – [More info](#)

USA: May 8, 2023 - APICOM GM Meeting, Santa Barbara, CA, Location - MSRC's facility at Carpinteria

Recordings of past EM OSR Knowledge Transfer Webinar Recordings – [Access and Download](#)

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 info@nosca.no Our main topic will be "Tomorrow's challenges and solutions within oil spill

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

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 <https://www.nosca.no/nosca-seminar/>

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. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#) [EXHIBIT SPACE AND SPONSORSHIPS ARE AVAILABLE](#) [Agenda](#). Updated information received on 8th February

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 and 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 is now 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 / [Seminar Information](#)

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 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. <https://www.spillcon.com/>

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

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

USA: IOSC 2024 CALL FOR PAPERS AND POSTERS

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.

Welcome to the IOSC 2024 Call for Papers and Posters. The IOSC is looking for technical and policy papers and posters under five general categories: Preparedness, Prevention, Remediation, Response, Restoration. [More info](#)

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATIONS

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

OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/> US EPA Tech Direct <https://clu-in.org/techdirect/archive/> and USA Federal Contracts Updates <https://clu-in.org/Federal-Contract-Opportunities>

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES (CONTINUED)

European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter <https://www.emsa.europa.eu/newsroom/newsletters.html>

EMSA HAS LAUNCHED A NEW PROCUREMENT PROCEDURE FOR SERVICE CONTRACT FOR EQUIPMENT ASSISTANCE SERVICE (EAS) IN THE BALTIC SEA AND THE NORTH SEA. [More info](#)

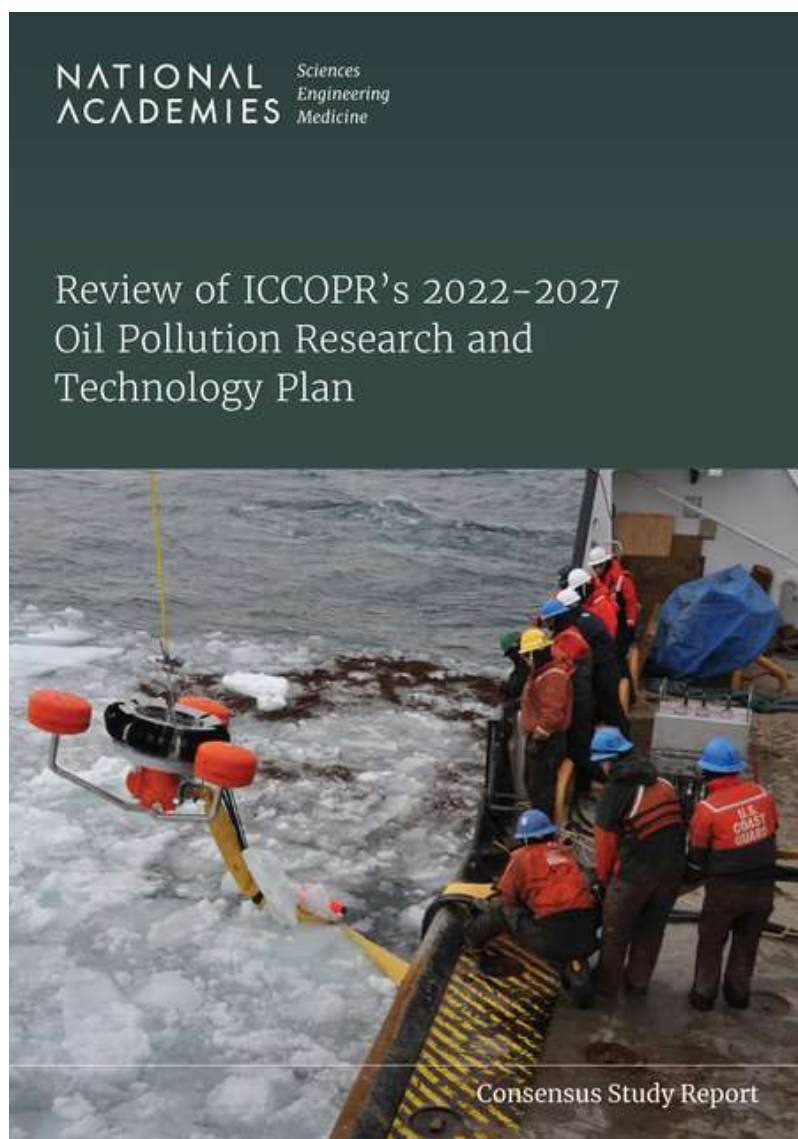
LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

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

NEW PUBLICATIONS

REVIEW OF ICCOPR'S 2022-2027 OIL POLLUTION RESEARCH AND TECHNOLOGY PLAN



After the Exxon Valdez oil spill in 1989, advancing oil pollution research and technology to limit the environmental impacts of oil spills became a national and international priority. Congress responded by enacting the Oil Pollution Act of 1990 and forming the Interagency Coordinating Committee on Oil Pollution Research (ICCOPR) to coordinate research for preventing, planning for, responding to, and mitigating the effects of oil pollution on the environment. To achieve this end, ICCOPR published the oil pollution research and technology plan to guide research and funding priorities in 1992, with updates released over the years, most recently, the 2022-2027 Research and Technology Plan.

This new report provides advice and guidance on the approach, structure, adequacy, and implementation of ICCOPR 2022-2027 Research and Technology Plan. Coordinated research efforts are necessary so knowledge and capacity related to oil spill prevention, preparedness, response, mitigation, and restoration can be advanced. Future updates of the plan should utilize a more streamlined, transparent, and community-driven development process including development of an oil pollution research dashboard and inclusion of metrics to assess and communicate progress on oil pollution research priorities. ICCOPR should also initiate processes to allow for open-water field trials when appropriate. The report recommendations were developed to assist ICCOPR with developing a Research and Technology Plan that can be widely used to promote progress, coordination, and collaboration on priority oil pollution research needs within the United States and globally - research needs that are important for improving knowledge, capacity, and regulations to safeguard the environment.

Contributor(s): National Academies of Sciences, Engineering, and Medicine; [Division on Earth and Life Studies](#); [Ocean Studies Board](#); [Committee to Review the Interagency Coordinating Committee on Oil Pollution Research \(ICCOPR\) 2022-2027 Research and Technology Plan](#)

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MARITIME ACCIDENT REPORTS FROM THE MARITIME BULLETIN www.maritimebulletin.net

In the Maritime Bulletin, Mikhail Voytenko regularly advises on vessel abandonments, groundings and sinkings – several every week – but, unless there is an immediate and significant release of oil or chemicals, spillages are not reported. However, many of Mikhail's reports cover incidents that may have potential to cause pollution. To view all of his reports, visit <https://www.maritimebulletin.net/>

USA: OHIO - TIMELINE OF OHIO TRAIN DERAILMENT, TOXIC CHEMICAL SPILL

February 28 - For weeks now, East Palestine and surrounding communities have been coping with the aftermath, including the release of thousands of gallons of toxic chemicals, as local, state, and federal officials try to determine both short- and long-term courses of action. Here is a timeline of the train derailment and its aftermath: The Epoch Times / [Continue Reading](#)

ITALY: THE BEACHES OF PUGLIA ARE OVERRUN WITH KETCHUP BOTTLES: "THIS IS ONLY THE BEGINNING OF A STRANGE PHENOMENON"

February 25 - Bottles of ketchup, mustard, mayonnaise, cheese spray cans, single-serving breakfasts, detergents, perfumes, wipes. These are just a few of the objects that have landed on the beaches of Puglia, and they all have one detail in common: they were produced in the United States. How they arrived is not yet clear, most likely, however, they are part of the same missing cargo. Enzo Sumo, creator of the Archeoplastica project, tries to connect the dots. "For the past few months, it was impossible not to notice those red bottles of American ketchup on the beaches of Puglia, but this was just the beginning." Netcost / [Read more](#)

UK: DELUGE OF TINY PLASTIC PELLETS POLLUTES SCOTS COAST

February 26 - At first glance, the sandy beach beside the picturesque village of Limekilns on the Firth of Forth is like many across Scotland, strewn with seashells and seaweed, frequented by dog walkers and popular with families, children and tourists in the summer. Yet this busy Fife beach is a hotbed for a far more invasive, endemic and concerning pollution problem. Scattered across its surface and embedded in the sandbank are thousands of tiny plastic pellets called nurdles.

"Once you notice them, you see them everywhere," says Joanna McFarlane, pointing out a multitude of lentil-sized blue, yellow and translucent pellets protruding from the sand. Nurdles are the building blocks of most plastic products on earth; shipped worldwide, usually in plastic bags or bulk trucks, to processing plants and factories where they are melted down to create a myriad of objects. The Sunday Post / [Read more](#) [Thanks to ISCO Committee Member, Dr Larissa Montas]

PHILIPPINES - TANKER WITH 800 TONS OF OIL SANK IN PHILIPPINES WATERS

February 28 - Product tanker PRINCESS EMPRESS reportedly sank early in the morning Feb 28 off northeast coast of Mindoro island, Philippines, being caught in rough weather. Tanker with 800 tons of technical oil was en route from Limay, Manila Bay, to Iloilo. The Maritime Bulletin / [Read more](#)

March 1 - Small Tanker Sinks and Spills Fuel. A sunken tanker is spilling petroleum into the water off the coast of Balingawan Point, Mindoro, in the Philippines' Tayabas Bay. the vessel was carrying a cargo of about 210,000 gallons of fuel oil, and it began spilling petroleum into the water, the PCG reported. A helicopter overflight first detected the slick, and the PCG initially determined that the substance was diesel, not the cargo of fuel oil. The situation worsened overnight. Princess Empress slipped fully below the waves on Wednesday, and the PCG confirmed the presence of an oil spill, "black and thick with strong odor." The Maritime Executive / [Read more](#)

March 2 - Oil spill from sunken ship threatens 21 protected marine areas in Philippines. If the spill is not contained, 21 locally protected marine areas could be harmed, said the Department of Environment and Natural Resources (DENR). Potential risk areas include seagrass beds, mangroves and dispersion pathways for spawned fish larvae. Straits Times / [Read more](#)

March 2 - Spill From Sunken Product Tanker Reaches Resort Towns on Mindoro. In an update Thursday, the PCG reported that the spill has reached the shoreline near the towns of Pola, Pinamalayan, Barangay Aplaya and Bongabong on Mindoro's eastern coast. Spill response teams from the Philippines' Department of Environment and Natural Resources (DENR) have been dispatched to begin a shoreline cleanup. The Maritime Executive / [Read more](#)

March 3 - Philippines oil tanker spill prompts fears for protected marine areas. Oriental Mindoro's 18,000 registered fishers have been told to stay onshore until it was safe to fish, according to Agence France-Presse. Pola town in Oriental Mindoro, one of the worst affected areas, has been placed under a state of calamity due to the spill. The town's mayor, Jennifer Cruz, told the Philippines media network GMA that the seawater and shoreline had turned black. "You can see the oil spill in the waves. Fish were dying. Our white sand is now black sand," Cruz said. The Guardian / [Read more](#) [Thanks to ISCO Committee Member, Dr Larissa Montas]

March 4 - Oil spill endangers coastal communities, marine hotspots as far as Palawan. An oil spill trajectory model developed by UP MSI oceanographer Cesor Villanoy and his team forecasted three possible scenarios for the oil slick's spread from March 3 to March 7 based on prevailing weather conditions. Rappler / [Read more](#)

March 5 - Tablas Strait oil spill reaches Antique. The oil spill from the tanker MT Empress Princess that sunk off Naujan, Oriental

INCIDENT REPORTS (CONTINUED)

Mindoro, on Feb. 28 has already reached the island town of Caluya, between Mindoro and Panay, only about 18 nautical miles west of Boracay Island in Aklan.



OILY WATERS| A crew member of the Philippine Coast Guard collects water samples from an oil spill in the waters off Naujan, Oriental Mindoro. (Photo from the Philippine Coast Guard)

According to Com. Jansen Benjamin, public information officer of the Philippine Coast Guard (PCG) Western Visayas District, the PCG was still consolidating actual figures. Benjamin said shoreline cleanup started immediately and at least three Coast Guard vessels were dispatched to the area along with oil spill boom defense, oil skimmer and oil absorbent materials, plus 15 responders.

The Marine Science Institute of the University of the Philippines released on Friday a bulletin about the spill and reported the oil slick to be around 25 km long and between 300 and 500 meters wide. Inquirer / [Read more](#)

INDONESIA: GROUNDED ASPHALT CARRIER POLLUTES TOURIST DESTINATION OFF SUMATRA

February 28 - Pollution from the wreck of an asphalt carrier is spreading along the west coast of Nias, an island off Sumatra in the Indian Ocean, according to Indonesia's Ministry of Maritime Affairs and Fisheries (KKP).

The Gabon-flagged asphalt carrier Aashi went aground on a remote stretch of beach on Nias' west coast on February 11, and it partially sank in the shallow water. It has begun spilling its cargo of 1,900 tonnes of asphalt, and sticky masses of the substance have been spotted as far as 15 nautical miles to the south of the wreck site. Tarballs are washing up on the pristine beaches of North Nias, including the Sawo-Lahewa protected area. This region is a popular destination for surfers and tourists. The Indonesian government plans to conduct a cleanup operation, and Nusantara Salvage Indonesia has been selected as the pollution-response contractor. Once officials have calculated the value of the environmental impact of the spill, they plan to pursue compensation from the shipowner. The Maritime Executive / [Read more](#)

INDIA: CRUDE OIL SPILLED IN THE SEA NEAR NAGORE

March 4 - A crude oil pipeline of CPCL, a public sector undertaking of the central government, broke into a crude oil pipeline at Nagore Pattinacherry fishing village in Nagapattinam district last night. So the crude oil passing through the pipeline got mixed into the sea.

The fishermen, who suffered from eye irritation and breathing problems due to continuous leakage of crude oil due to pipe breakage,

INCIDENT REPORTS (CONTINUED)

staged a protest. On the orders of Nagapattinam District Collector Arun Thamburaj, the officials of the department along with the concerned CPCL carried out the restoration work day and night. Tamil.Samayam / [Read more](#)

March 5 - More than 100 fishermen from Nagapattinam taluk from eight villages including Nagore Pattinacheri, Samanthanpettai and Sambathottam gathered at the meeting. Meanwhile, CPCL, which claims to have temporarily repaired the breach, has started the restoration work for the second day. The employees of CPCL are engaged in repairing the breach with sandbags on the beach of Nagore Pattinacheri village near Nagapattinam. Tamil.Samayam / [Read more](#)

TWELVE GOOD REASONS WHY YOU SHOULD BE A MEMBER OF ISCO

Even when budgets are tight, you can fully justify the cost of ISCO membership

- 1. INDUSTRY RECOGNITION** - Be recognised as a member of a worldwide community of professionals who share a common interest.
- 2. EXPOSURE ON ISCO DIRECTORY** - Corporate Members enjoy FREE Listing in ISCO's International Directory of Spill Response Contractors, Equipment Suppliers, Training Providers, and Consultancy Services. All your information displayed and one click access to your website. It's a great search facility for potential customers. More info available from Mike Watson at mike@mwadigital.com
- 3. RECEIVE REQUESTS FOR EMERGENCY PROVISION** - Corporate Members receive requests for emergency provision of resources for spill response support. The Emergency Assistance facility is there for government agencies, oil companies and response organizations - not only for rapid sourcing of additional resources in large spill events, it can be used to help find specialised equipment not often available in response inventories, people with specialised experience and know-how, etc. Contractors can use the facility to supplement their own internally available resources.
- 4. ISCO INITIATIVES - CONTRACTUAL ARRANGEMENTS, ETC** - Benefit from ISCO initiatives that are of practical value to Members – for example, the free and widely used RESPONSECON contracts that you can use - speeding up contractual arrangements for mobilisation of spill response resources, with positive implications for protecting your cash flow. See <https://spillcontrol.org/response-contract/>
- 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. Contact Editor, John McMurtrie at john.mcmurtrie@spillcontrol.org
- 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 IN THE 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.
- 9. OPPORTUNITY FOR LOBBYING FOR LEGISLATIVE CHANGE** - Through ISCO, Members have a voice in the drafting of new legislation that will affect their areas of interest. We introduce new initiatives at IMO and give our support to other delegates advancing developments that will be of benefit for improvement of response effectiveness.

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.

11. CORPORATE MEMBERS can place low cost advertisements in the ISCO Newsletter reaching out every week to over 3,000 potential customers in over 60 countries. Newsletter readers represent a highly targeted audience for promoting sales of response equipment, materials, consultancy services and training courses. For details, please contact Mike Watson at mike@mwadigital.com

TWELVE GOOD REASONS WHY YOU SHOULD BE A MEMBER OF ISCO (CONTINUED)

12. STUDENTS, APPRENTICES and TRAINEES can have free student membership for the duration of their studies and upon completion of their period of free membership are encouraged to become Individual Members of ISCO. Student Members are linked into an international network of students and can get help from other ISCO members who have expertise that can assist them in their studies. For more information, contact Student Group Leader, Peter Balogun Kayode at balogunkayodepeter@yahoo.com

For more information visit www.spillcontrol.org

Apply for Membership of ISCO at <https://spillcontrol.org/membership-application-form/>

NO NEWS FROM YOUR PART OF THE WORLD?

You can correct this by sending in news reports that will be of interest to the spill response community in your own country and the wider world. Send your news to your editor - john.mcmurtrie@spillcontrol.org

NEWS FROM ISCO MEMBERS

Your editor welcomes news from members. Please ensure that ISCO is on your mailing list for your press releases and company newsletters. Send your news to john.mcmurtrie@spillcontrol.org

THE EDUCATIONAL ROLE OF THE ISCO NEWSLETTER

The ISCO Newsletter has in the past published excellent serialised articles on such matters as inland spill response, aerial observation of oil spills, in-situ burning, etc. by respected experts including Dr Merv Fingas and Mark Francis. Your editor is currently looking for more interesting articles of this kind. If you think you can help, please get in touch. john.mcmurtrie@spillcontrol.org

Disseminating news about new technical developments is of value to our community. Corporate Members and others are invited to contribute articles.

Your editor is also interested to receive interesting case histories for publication. Dealing with spill events often requires an innovative approach and you are invited to share your experiences.

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. Members who would like to have an ISCO Membership Placard should request one by emailing info@spillcontrol.org

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 Dalglish, in sending out reminders and chasing up overdue payments. If you are behind with your payment, please go to <https://spillcontrol.org/subscriptions> 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.

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