



ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for-profit organization dedicated to raising worldwide preparedness & co-operation in response to oil and chemical spills, marine & freshwater pollution by plastics. promoting technical development and professional competency, & 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 & observer Status at the International Oil Pollution Compensation Fund

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Members of the Executive Committee who act as the INTERIM EXECUTIVE (Acting in lieu of President, and as Members of SECRETARIAT (Core Management Team)

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

Other Members of Executive Committee who also act as members of the SECRETARIAT

- Captain Bill Boyle (UK)
- Mr Marc Shaye (USA)
- Mr Michael Watson (UK)

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- Mr Dan Sheehan (USA)
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- Mr Wu Yue (China)

INTERNATIONAL & REGIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



IMO WELCOMES ADOPTION OF NEW OCEANS TREATY

IMO has welcomed the adoption of a landmark agreement on a new oceans treaty to protect marine biodiversity on the high seas.

The new legally binding international instrument on the conservation and sustainable use of marine biological diversity in areas beyond national jurisdiction - known as 'BBNJ' - was adopted on 19 June, at the United Nations headquarters in New York, United States. It was adopted at the resumed fifth session of the Intergovernmental Conference, and will open for signature on 20 September. The treaty will enter into force after ratification by 60 States.

IMO Secretary-General Kitack Lim (*photo courtesy of IMO*) said: "I congratulate all parties on the successful adoption of the new legally binding instrument on marine biodiversity in areas beyond national jurisdiction. This landmark achievement will no doubt reinforce efforts to protect biodiversity in line with the aims of the 2030 Agenda for Sustainable Development and the Kunming-Montreal Global Framework for Biodiversity. IMO has participated throughout the negotiations, given the organization's mandate and expertise, and will continue to participate, in the implementation of the new instrument. IMO looks forward to further strengthening our cooperation with Member States, the UN family and all other stakeholders." IMO / [Read more](#) Related Report in [The Maritime Executive](#)



SMIT REPORTS SALVAGE PROGRESS AT FSO SAFER

Coming up to a fortnight after arriving at the decaying hulk of FSO Safer, nearly five miles off the coast of Yemen, the salvage team from SMIT Salvage, a subsidiary of Boskalis, have said that the operation was making progress with preparing the vessel for the ship-to-ship oil transfer. During the first phase of the operation the

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The Fifteenth Meeting of the Focal Points of the
Regional Marine Pollution Emergency Response
Centre for the Mediterranean Sea (REMPEC) was
held in Kappara, Malta, from Tuesday 13th to
Thursday 15th June 2023. (Photo courtesy of
REMPEC)

Organised on a biennial basis, in accordance with
Article 18 of the 2002 Prevention and Emergency Protocol, the Meeting was an opportunity for representatives of the Contracting Parties to the Barcelona Convention (jointly nominated by the REMPEC Governmental Focal Points, in consultation with the REMPEC Prevention Focal Points and the REMPEC OPRC Focal Points), representatives of governmental and non-governmental organisations and industry partners, the activities of which are relevant to the work of the Centre, to meet and examine the implementation of REMPEC's activities and deliverables since the last Meeting of the Focal Points of REMPEC, as well as to discuss and agree upon the activities and deliverables of the draft Programme of Work for the biennium 2024-2025 of the Mediterranean Action Plan (MAP) of the United Nations Environment Programme (UNEP), prior to their submission, for approval by the next Meeting of the MAP Focal Points (Istanbul, Türkiye, 12-15 September 2023), and for adoption by the Twenty-third Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean (Barcelona Convention) and its Protocols (COP 23) (Izola, Slovenia, December 2023). This Meeting was the first time the Focal Points of REMPEC could meet in person since the COVID-19 period, as the Fourteenth Meeting of the Focal Points of REMPEC was held online, from 31 May to 2 June 2021). REMPEC / [Read more](#)

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

team is surveying the vessel and stabilizing it, so that the transfer of 1.1m barrels to another vessel, the Nautica (IMO 9323948), can begin.

Boskalis reported in its weekly update that the SMIT Salvage team was able to board the FSO Safer for the first time on May 31st. The first steps included taking gas measurements to assess the level of toxic gas in and around the vessel; also the team was undertaking its first visual inspections. The SMIT team declared the FSO "safe to access," meaning that further work could begin.

Insurance Marine News / [Read more](#)

IOPC FUNDS ANNUAL ACADEMY 2023



Above: Participants at the Annual Academy. Photo courtesy of IOPC Funds

The IOPC Funds' Annual Academy took place from Monday, 12 to Friday, 16 June at the Funds' headquarters in London. This year's academy was attended by participants from 15 Member States of the 1992 Fund, representing maritime administrations, environment or transport Departments and others. IOPC Funds / [Read more](#)

MEETING OF THE FOCAL POINTS OF REMPEC



INTERNATIONAL & REGIONAL NEWS (CONTINUED)

MOIG HOLDS MEETING WITH CEDRE



On 13 June 2023, a meeting was held between Mr. Arnaud Guéna, Deputy Director and Production Manager of Cedre and MOIG Director at the Conference Center of Urban Valley Resort Hotel in Malta.

The main objective of this meeting was to discuss and exchange views on the forthcoming joint activities to be held in 2024. We were very delighted with the outcome of this meeting, both parties agreed to organize events that will strengthen member's capability on oil spill preparedness and response. MOIG / [Read more](#)

ISCO NEWS

ZOOM MEETING ON 22nd JUNE

It was quite a small meeting with a number of apologies received. Topics discussed included –

- Ed Levine made the point that with the ongoing international exchanges between members in various countries ISCO was contributing to improving international relationships at a geopolitical level. As an example, he cited the currently difficult relations between the USA and China.
- The matter of ISCO awards being discussed within the Executive Committee was raised and a suggestion was made that a Working Group be formed to determine a way forward.
- On our communications platform ISCO is continuing to highlight opportunities for young people on the Student Members' page. The latest posts included IOPC Scholarships and new positions arising from US EPA's formation of a National Environmental Youth Advisory Council
- Ed Levine asked about the possibility of setting up a search facility for past issues of the ISCO Newsletter. John McMurtrie advised that we had tried to do this before but had not been able to complete. He said that ISCO would look at this again.
- Helena Rowland asked if ISCO could do more to encourage Scientific Collaboration and was asked to elaborate on her ideas on this matter.
- John McMurtrie identified a need for the Executive Committee to appoint one of its members to act as a Chair for the Committee. He will follow up with a post on the Executive Committee page on our Communications Platform.
- Mary Ann Dagleish said that in her view the structure of ISCO was too complicated and that a relatively few individuals were fulfilling multiple roles. John McMurtrie said that part of the problem was that some members of the Executive Committee appeared not to be willing to "step up" and accept some additional responsibilities in helping to manage the organisation.
- Mary Ann Dagleish said she intended to write a letter to everyone on the ISCO Newsletter list of subscribers to research how many people were reading the newsletter on a regular basis and ask for comments on its current content and possible ways to make improvements to build the readership numbers.
- Mike Watson was unable to attend but prior to the meeting had spoken with John McMurtrie making a proposal that ISCO should consider the holding of Networking Meetings. He has now posted his ideas on this on the Executive Committee page of our Communications Platform and if well received it will be further discussed at our next members' ZOOM Meeting.

NEWS REPORTS FROM AROUND THE WORLD

CANADA RECOGNIZES A RIGHT TO A HEALTHY ENVIRONMENT AND CHANGES ITS PROCESS FOR ASSESSING TOXIC SUBSTANCES

June 21 - On June 13, 2023, the long-in-the-making amendments to the Canadian Environmental Protection Act (CEPA) were passed by the Senate and received royal assent. Bill S-5, the Strengthening Environmental Protection for a Healthier Canada Act, makes the first substantial amendments to the CEPA since 1999. Mondaq / [Read more](#)

CANADA: THE 'POLLUTER PAYS' PRINCIPLE: PROPOSED AMENDMENTS TO THE ENVIRONMENTAL MANAGEMENT ACT MAY USHER IN A NEW ERA FOR B.C. INDUSTRIAL COMPANIES

June 21 - British Columbia is taking a major legislative step towards requiring industrial companies to pay for a significant scale of environmental cleanup if their projects are abandoned. The province is proposing amendments to its Environmental Management Act, SBC 2003, c 53 (the EMA) that will enable the government to collect, use, and enforce financial assurance requirements through future regulations Lexology / [Read more](#)



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CUBA: BOOSTING OIL SPILL PREPAREDNESS SKILLS

June 21 - Ensuring government authorities' personnel are equipped with the skills and knowledge to design effective plans to respond in the event of an oil pollution incident was the focus of a national workshop in Havana, Cuba (13-16 June). The International Convention on Oil Pollution Preparedness, Response and Co-operation (OPRC) provides a framework designed to facilitate international co-operation and mutual assistance in preparing for and responding to major oil pollution incidents. IMO / [Read more](#)

EGYPT: SAUDI CRUDE TANKERS CLUSTER NEAR RED SEA COAST IN RARE MOVE

June 17 - Supertankers holding more than 20 million barrels of Saudi Arabian crude are clustered off Egypt's Red Sea coast, the most since the depths of the worldwide pandemic in 2020, data from Vortexa showed. gCaptain / [Read more](#)

GREECE: CLOSING EVENT OF THE PROJECT "SEA GUARDIANS - EDUCATING THE GUARDIANS OF THE SEA"

June 21 - On the island of Alonissos, with the emblematic marine park and many years of experience in the management of this Marine Protected Area, the two-day closing event of the Green Fund funded project was successfully completed on 8 & 9 June 2023. During the first day of the event, a workshop was held with the presentation of the project's results, followed by a discussion on its main topics. HELMEPA / [Read more](#)

INDIA: VISAKHAPATNAM: INDIAN COAST GUARD CONDUCTS POLLUTION RESPONSE WORKSHOP

June 17 - A two-day seminar-cum-training workshop on pollution response at sea was conducted by Indian Coast Guard (ICG) District HQ (Andhra Pradesh) in Visakhapatnam. The seminar was attended by representatives from various central and state agencies as well as other stakeholders such as Oil Handling Agencies (OHA) operating in the region. The event included a comprehensive presentation by the Indian Coast Guard on combating marine pollution at sea. Hans India / [Read more](#)

INDIA: THE SUBTERRANEAN CHEMISTRY THAT EXPLAINS INDIA'S GROUNDWATER CONTAMINATION

June 22 - A [study](#) by a team of scientists from universities in Punjab, Sikkim and West Bengal, including Kumar, describes how uranium, arsenic and other toxic elements are mobilised in aquifers and surface waters, contaminating drinking water and irrigation in Punjab. Chemistry World / [Read more](#)

NIGERIA: FG TO DEVELOP CONTINGENCY PLANS TO MITIGATE OIL SPILLS, PROTECT WILDLIFE

June 21 - The federal government says it would develop an effective oiled wildlife contingency plan (OWCP) to protect the country's wildlife in the event of oil spills. Ibrahim Yusuf, permanent secretary, ministry of environment, spoke on Tuesday at the workshop organised by the national oil spill detection and response agency (NOSDRA) and global initiative for west central and southern Africa (GI-WACAF). The Cable / [Read more](#)

PANAMA: EQUIPMENT DEPLOYMENT AND NOTIFICATION DRILL - PORT OF BALBOA - PANAMA MARITIME AUTHORITY (AMP)

June 19 - ISCO participated as an Observer in the Equipment Deployment and Notification Drill carried out in the port of Balboa (Panama City) within the framework of the III Regional Simulation in Central America of Disaster Response and Humanitarian Assistance carried out in Panama between June 13 - 16, 2023

The aforementioned event had ISCO as an Observer, in addition to the participation of the countries of the region (Brazil, Ecuador, Mexico, USA) and experts from regional organizations, in different risks inherent to incidents originating in nature and/or industrial. Within this framework, the Panama Maritime Authority (AMP - <https://amp.gob.pa/>) and the General Directorate of Ports and Maritime and Auxiliary Industries (Licda. Flor Pitty) determined a fuel oil spill scenario on 13th June at one of the docks of the port of Balboa (POTSA company, concessionaire of the Panama Ports Company - PPC - <https://www.ppc.com.pa/>), which implies that it was on the side of the Panama Canal. This event was a milestone for Panama because for the first time the current administration summoned the 4 certified OSROs in the country (GOPC, Layne, Talleres Industriales and Slop & Recovery), to participate jointly in an Drill of this type. Thus, it was the opportunity to see these specialized companies in operation, their OSRVs and specialized vessels, their equipment (booms, skimmers) and the state of training of their personnel, as well as the existing coordination for prevention

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

and response of the Department of Pollution (Mr. Gil Valdez - Department Head - Mr. Eliseo Carrizo - Principal Deputy), who became Incident Commander.



Members of the ICS (Pollution Dept. AMP) and participating OSRO Supervisor



Deployment booms OSRV (Layne) – Port of Balboa



Deployment of Containment Boom - Support boat GOPC



Incident Commander with foreign Observers explaining situation

The Exercise had a Tier I scope, since local resources were used and the participating OSROs were positioned in the vicinity of the maritime scenario where the spill was simulated. Multiple evaluators from the Pollution Department were deployed on the OSROs' vessels, which allowed measuring the performance of each OSRO's response teams. Undoubtedly, with this event, the AMP will be able to have a better idea of the real capacities that Panama has to attend these scenarios, which must be remembered that it was in a port area and protected waters, very different from other open water scenarios that exist close to the exit of the Panama Canal and in the anchorage area of the Bay of Panama (ISCO Newsletter N° 893).

It should be remembered that Panama does not yet have a National Contingency Plan for oil spills and HNS (<https://racrempeitc.org/country-database/>), which is in the draft phase among public and private sector stakeholders of the maritime field, so the results and evaluation of this event may be useful to the authorities to advance in that purpose, one year before the end of his mandate. IMO has also scheduled an audit with the AMP for the month of October of this year, in which all procedures and prevention and response schemes for this type of incident with oil spills will be reviewed (<https://amp.gob.pa/notas-de-prensa/panama-se-prepara-para-the-audit-that-the-omi-carried-out-to-its-member-states/>).

Attached is the press link with the editorial of Mr. Juan Diego Reyna (ISCO Member in Panama) with comments on the spill control situation in Panama: <https://www.laestrella.com.pa/opinion/columnistas/230619/panama-preparado-derrame?>

[Thanks to Carlos Sagrera, MSc, Hon.FISCO, Member of ISCO Council for Panama, ISCO Representative in Latin America]

QATAR: ITOCHU AND SKY PERFECT JSAT ANNOUNCES SAR SATELLITE-BASED OFFSHORE OIL SPILL MONITORING SERVICE TO QATAR

June 20 - ITOCHU Corporation (Headquarters: Minato-ku, Tokyo; President and COO: Keita Ishii; hereinafter "ITOCHU") and SKY Perfect JSAT Corporation (Headquartered: Minato-ku, Tokyo; Representative Director, President & Chief Executive Officer: Eiichi Yonekura; hereinafter "SKY Perfect JSAT") announced the commencement of Synthetic Aperture Radar (SAR*1) satellite-based oil spill detection service to the Qatari Ministry of Environment & Climate Change (hereinafter "Qatari MECC").

Marine Insight / [Read more](#)

SOUTH AFRICA: RESEARCHERS COLLABORATE ON OIL SPILL MODEL FOR SOUTH AFRICA

June 21 - Research associates from the University of Cape Town and several others have partnered with South African non-profit WILDTRUST on a project to predict the nature, behaviour and trajectory of oil spilt from offshore oil and gas extraction.

The WILDTRUST oil spill model is an objective and scientifically defensible reference for risk assessments in South Africa's offshore economy. Among other key features, the tool will help generate awareness and distribute information to decision-makers, the public, and affected stakeholders about the risks associated with an oil spill from offshore exploration and extraction.

Cape Town etc / [Read more](#)

USA: OVER 34 YEARS AFTER EXXON VALDEZ EPA FINALIZES NEW RULES FOR OIL SPILL CLEAN-UPS

June 16 - Over 34 years after the Exxon Valdez oil spill disaster and the hazardous waste cleanup that followed, the U.S. Environmental Protection Agency (EPA) has issued a final rule requiring improved testing of the toxicity of dispersants used in such cleanup and remediation projects.

That final rule, published on Monday in the Federal Register, and effective on Dec. 11, came on the heels of a lawsuit filed in 2020 by Earth Island Institute and several other environmental entities. The entities were concerned over the long-term health and environmental impacts of the nation's two largest maritime oil disasters, the Exxon Valdez oil tanker spill in Alaska's Prince William Sound on March 24, 1989, and the Deepwater Horizon disaster in the Gulf of Mexico, which began on April 20, 2010.

The Cordova Times / [Read more](#)

USA: NATIONAL OIL AND HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN; PRODUCT SCHEDULE LISTING AND AUTHORIZATION OF USE

June 16 - One of EPA's top priorities is to prevent, prepare for, and respond to oil spills that occur in and around inland waters of the United States. Under the [National Oil and Hazardous Substances Pollution Contingency Plan \(NCP\)](#), EPA is the lead federal response agency for oil spills occurring in inland waters. The [U.S. Coast Guard](#) is the lead response agency for spills in coastal waters and deepwater ports. Subpart J governs the use of chemical and biological agents for oil spill responses in both inland and coastal zones.

Subpart J establishes a schedule that includes the NCP Product Schedule identifying chemical and biological agents, dispersant monitoring requirements, and the authorization of use procedures that, when taken together, identify the waters and quantities in which such dispersants, other chemicals, or other spill mitigating devices and substances may be used safely.

EPA Gov / [Read more](#) More websites with additional info can be found [HERE](#) [Thanks to Marc Shaye. Hon.FISCO]

USA: EPA FINALIZES NEW RENEWABLE FUEL STANDARDS TO STRENGTHEN U.S. ENERGY SECURITY, SUPPORT U.S. RURAL ECONOMY, AND EXPAND PRODUCTION OF LOW-CARBON FUELS

June 21 - Today, the U.S. Environmental Protection Agency (EPA) issued a final rule under the Renewable Fuel Standard (RFS) program that establishes the biofuel volume requirements for 2023 to 2025. This final rule builds on the RFS program's progress over the previous two years and reflects the Biden-Harris Administration's commitment to strengthen the nation's energy independence, advance low-carbon fuels, and support agricultural communities. EPA Gov. / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

June 26 - Please click on the links below to download and read the latest news from NOAA OR&R

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

Marine Debris Sculpture Unveiled at Cape Cod National Seashore

On June 8, the NOAA Marine Debris Program unveiled a new sculpture made entirely of plastic marine debris items during a World Ocean Day event at the [Cape Cod National Seashore](#)(link is external).

Virtual Seminar Highlights Statewide Coordination on Preventing Marine Debris

On June 13, the NOAA Marine Debris Program (MDP) coordinated and presented at the bi-annual California Ocean Litter Prevention Strategy webinar. The webinar brought together over 60 partners across the state and included a diverse set of sectors including state agencies, nonprofits, policy-makers, and academia.

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 60 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

MONGLA PORT IN BANGLADESH TO INSTALL LAMOR'S WASTE MANAGEMENT SOLUTIONS FOR MARPOL COMPLIANCE



Mongla Port (MPA) is the first port in Bangladesh to invest in the latest Port Reception Facilities (PRF) using specialised European technologies for processing emulsion, water, and sediment separation. MPA is also acquiring a specialised MARPOL collection vessel from Finland to transfer all kinds of waste produced onboard vessels that come into the port to this unique PRF operation.

The PRF operations will help preserve this delicate ecosystem by reducing the impact of vessel waste on the environment and preserving the Sundarbans which is a unique and beautiful World Heritage site that is home to a diverse range of flora and fauna, including the endangered Bengal tiger. Lamor Corporation Ltd. www.lamor.com

SURFCLEANER SUPPLIES ONE OF WORLD'S LARGEST IRON ORE MINES

SurfCleaner has supplied specialist water treatment technology to one of the largest underground iron ore mines in the world.

In an era of increasing environmental consciousness and the pursuit of sustainable mining practices, the importance of efficient water treatment technology cannot be overstated. SurfCleaner has recently made significant strides in the global mining sector by supplying

NEWS FROM ISCO MEMBERS (CONTINUED)

its cutting-edge technology to one of the largest underground iron ore mines in the world. This article explores the successful implementation of SurfCleaner's SCO 1000 units within the mine's water treatment facility, highlighting the remarkable operational efficiency, cost savings, and environmental benefits achieved. By replacing the former filtration system and significantly enhancing the water treatment process, SurfCleaner is setting a new standard for sustainable mining operations, fostering a win-win situation for both the industry and the planet. Surf Cleaner / [Read the whole article](https://surfcleaner.com) <https://surfcleaner.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 Committee Member, Dr Larissa Montas, is a contributor to this section in the ISCO Newsletter. She has been taking a break and her next contribution will appear in a later issue.

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS

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



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.

154. Improving the design and conduct of aquatic toxicity studies with oils based on 20 years of CROSERF experience

Stubblefield, W.A., Barron, M., Bragin, G., DeLorenzo, M.E., de Jourdan, B., Echols, B., French-McCay, D.P., Jackman, P., Loughery, J.R., Parkerton, T.F., Renegar, D.A., Rodriguez-Gil, J.L.
(2023) *Aquatic Toxicology*, 261, art. no. 106579, .
DOI: 10.1016/j.aquatox.2023.106579

ABSTRACT: Laboratory toxicity testing is a key tool used in oil spill science, spill effects assessment, and mitigation strategy decisions to minimize environmental impacts. A major consideration in oil toxicity testing is how to replicate real-world spill conditions, oil types, weathering states, receptor organisms, and modifying environmental factors under laboratory conditions. Oils and petroleum-derived products are comprised of thousands of compounds with different physicochemical and toxicological properties, and this leads to challenges in conducting and interpreting oil toxicity studies. Experimental methods used to mix oils with aqueous test media have been shown to influence the aqueous-phase hydrocarbon composition and concentrations, hydrocarbon phase distribution (i.e., dissolved phase versus in oil droplets), and the stability of oil:water solutions which, in turn, influence the bioavailability and toxicity of the oil containing media. Studies have shown that differences in experimental methods can lead to divergent test results. Therefore, it is imperative to standardize the methods used to prepare oil:water solutions in order to improve the realism and comparability of laboratory tests. The CROSERF methodology, originally published in 2005, was developed as a standardized method to prepare oil:water solutions for testing and evaluating dispersants and dispersed oil. However, it was found equally applicable for use in testing oil-derived petroleum substances. The goals of the current effort were to: (1) build upon two decades of experience to update existing CROSERF guidance for conducting aquatic toxicity tests and (2) to improve the design of laboratory toxicity studies for use in hazard evaluation and development of quantitative effects models that can then be applied in spill assessment. Key experimental design considerations discussed include species selection (standard vs field collected), test substance (single compound vs whole oil), exposure regime (static vs flow-through) and duration, exposure metrics, toxicity endpoints, and quality assurance and control.

155. Distribution, sources and risk assessment of polycyclic aromatic hydrocarbons in surface sediments from the Yellow Sea coast, China

Zhang, D., Wang, Y., Jiang, X., Cao, K., Yin, P., Zhao, Z., Fan, Y., Liu, N.
(2023) *Marine Pollution Bulletin*, 192, art. no. 115001,
DOI: 10.1016/j.marpolbul.2023.115001

ABSTRACT: To study the distribution, sources, ecological/health risks, and the impact of regional economic variations on polycyclic aromatic hydrocarbons (PAHs) contaminations along the coast of the Yellow Sea in China, sediments from a broad coastal coverage were collected and analyzed. The total contents of 16 priority PAHs varied between 1.4 and 1675.9 ng/g except in the site of H18 (3191.4 ng/g) adjacent to Qingdao City, with an average value of 295.7 ng/g. PAH pollution along the coast presented a distinctive geographical feature, which was closely linked to local human activities, such as Rongcheng with industrial zones and aquacultural areas, and Yancheng Wetland with developed aquaculture. The source analysis results indicated that PAHs were mainly from pyrolytic sources, with smaller contributions from petroleum spills and combustion. Risk assessment suggested that PAH pollution along the Yellow Sea coast showed negligible biological risks and health risks in most areas.

156. Heat release rate of enhanced large-scale open oil slick fires with Outdoor Gas Emission Sampling (OGES) system

Ho, H.-H., Nair, S., Rangwala, A.S.
(2023) *Marine Pollution Bulletin*, 192, art. no. 114987,
DOI: 10.1016/j.marpolbul.2023.114987

ABSTRACT: The Outdoor Gas Emission Sampling (OGES) system was developed to serve as an economical alternative to expensive industrial gas monitoring equipment. By establishing a sampling plane with four discrete sampling points along the radial direction of the smoke plume, the heat release rate (HRR) was measured for large-scale open oil slick fires. This newfound technique was particularly noteworthy during enhanced burns involving Flame Refluxer™ technology, where it is believed that partial premixing of the fuel and air by the apparatus resulted in a higher HRR than existing flame height correlations would suggest, evident by the HRR calculated using mass burning rate and gas analysis methods, which were in good agreement. Results from OGES show the potential of using point sampling within the plume regime to measure the HRR of fires that exceed the capabilities of conventional hood-based calorimeters, especially when it pertains to large-scale open burns.

157. Isolation and characterization of crude-oil-dependent bacteria from the coast of Ghana using oxford nanopore sequencing

Sarfo, M.K., Gyasi, S.F., Kobo-Bah, A.T., Adu, B., Mohktar, Q., Appiah, A.S., Serfor-Armah, Y.
(2023) *Heliyon*, 9 (2), art. no. e13075,
DOI: 10.1016/j.heliyon.2023.e13075

ABSTRACT: The utilization and improper use of crude oil can have irreparable damage on the environment and human populations. This study sought to isolate hydrocarbon utilizing bacteria from 1% v/v pristine seawater and 1% v/v crude oil using enrichment culture techniques. Whole genome sequencing of DNA using the Oxford Nanopore sequencing technique with Fastq WIMP as the workflow at 3% abundance was undertaken. The results showed that the most abundant isolates identified using this technique at specific sampling sites were, *Acinetobacter junii* (51.9%), *Alcanivorax pacificus* (15.8%), *Acinetobacter haemolyticus* (21.6%), *Pseudomonas aeruginosa* (23.4%), *Alcanivorax xenomutans* (24.7%), *Alcanivorax xenomutans* (23.0%) *Acinetobacter baumannii* (40.0%) and *Acinetobacter junii* (14.2%). Cumulatively, the most abundant isolates in the 8 sampling sites were *Acinetobacter junii* (17.91%), *Alcanivorax xenomutans* (11.68%), *Pseudomonas aeruginosa* (7.68%), *Escherichia coli* (7.67%), *Acinetobacter haemolyticus* (3.40%), and *Alcanivorax pacificus* (3.10%). Spearman's rank correlation analysis to examine the strength of relationship between the physicochemical parameters and type of bacteria isolated, revealed that salinity (0.8046) and pH (0.7252) were the highest. Isolated bacteria from pristine seawater, especially *Escherichia coli* have shown their capacity for bioremediating oil spill pollution in oceanic environments in Ghana.

158. Response of dung beetle diversity to remediation of soil ecosystems in the Ecuadorian Amazon

Pozo-Rivera, W.E., Quiloango-Chimarro, C., Paredes, X., Landívar, M., Chiriboga, C., Hidalgo, D., García, K., Villacís, J.
(2023) *PeerJ*, 11, art. no. e14975,
DOI: 10.7717/peerj.14975

ABSTRACT: Background: Efforts to alleviate the negative effects of oil spills in the Ecuadorian Amazon include remediation activities such as cleaning, reshaping, and revegetation of polluted areas. However, studies of the diversity of biological communities in these hydrocarbon-degraded ecosystems have never been carried out. Here, we evaluated the diversity of dung beetles on remediated soil ecosystems (Agricultural Soils and Sensitive Ecosystems) and on non-contaminated soils (Natural Forests and Palm Plantations). Methodology: The study was conducted in Sucumbíos and Orellana provinces, in the Ecuadorian Amazon at four sampling sites per ecosystem type (a total of 16 sites). At each sampling site, six pitfall traps remained active for 120 consecutive h per month for 1 year. Results: We collected 37 species and 7,506 individuals of dung beetles. We observed significant differences in mean species abundance, richness, and diversity between non-contaminated soil ecosystems and remediated soil ecosystems, with Natural Forests presenting the highest values, and Agricultural Soils the lowest values. Regarding sampling month, we also found significant differences among ecosystems, which were also higher in Natural Forests. Discussion: The results suggest that hydrocarbon-degraded ecosystems tend to conserve lower beetle diversity one year after remediation highlighting the importance of Natural Forests for the conservation of tropical biodiversity. Therefore, dung beetle diversity could be used for future landscape management of these hydrocarbon-degraded ecosystems.

159. Occurrence and distribution of legacy and emerging pollutants including plastic debris in Antarctica: Sources, distribution and impact on marine biodiversity

da Silva, J.R.M.C., Bergami, E., Gomes, V., Corsi, I.
(2023) Marine Pollution Bulletin, 186, art. no. 114353,
DOI: 10.1016/j.marpolbul.2022.114353

ABSTRACT: Since the first explorers reached Antarctica, their activities have quickly impacted both land and sea and thus, together with the long-range transport, hazardous chemicals began to accumulate. It is commonly recognized that anthropogenic pollution in Antarctica can originate from either global or local sources. Heavy metals, organohalogenated compounds, hydrocarbons, and (more recently) plastic, have been found in Antarctic biota, soil sediments, seawater, air, snow and sea-ice. Studies in such remote areas are challenging and expensive, and the complexity of potential interactions occurring in such extreme climate conditions (i.e., low temperature) makes any accurate prediction on potential impacts difficult. The present review aims to summarize the current state of knowledge on occurrence and distribution of legacy and emerging pollutants in Antarctica, such as plastic, from either global or local sources. Future actions to monitor and mitigate any potential impact on Antarctic biodiversity are discussed.

160. Occurrence and distribution of legacy and emerging pollutants including plastic debris in Antarctica: Sources, distribution and impact on marine biodiversity

Zhang, Z., Wang, C., Wang, R., Liu, X.
(2023) Environmental Pollution, 316, art. no. 120554,
DOI: 10.1016/j.envpol.2022.120554

ABSTRACT: The deposition of tar balls of unknown sources on the coast poses a great threat to the fishery, tourism and coastal biodiversity in the Bohai Sea. This work aimed to identify the sources of tar balls by using oil fingerprint technique. Tar ball samples were collected from the seashore of two islands of the western Bohai Sea and divided into two groups (Group I and Group II). Principal component analysis showed that although Caofeidian oilfield was one of the closest oilfields to the sampling area it was not a source. Fingerprints of characteristic hopanes and steranes showed that samples of Group I were similar to the crude oils from the nearby Jidong oilfield, and samples of Group II were similar to the Penglai-19-3 crude oils. Combined with cross-plots of the samples and the reference oils, it indicated that Group I may come from Jidong and Group II may come from Penglai-19-3. The weathering characteristics of alkanes and polycyclic aromatic hydrocarbons showed that the samples were affected by natural weathering processes (e.g., evaporation, photooxidation and biodegradation). It revealed that oil pollution from the nearby oilfields can also affect other areas under the influence of ocean circulation. It is the first study on source identification of tar balls from the Bohai Sea and the effects of ocean circulation on the tar ball transport. This study can considerably help to further understand the evolution of tar balls and consequently determine their sources.

SCIENCE & TECHNOLOGY (

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AI-DRIVEN SOIL REMEDIATION: A NEW FRONTIER IN ENVIRONMENTAL RESTORATION

The growing global concern for environmental degradation has led to the development of innovative technologies that aim to restore and preserve the planet's ecosystems. One such technology is AI-driven soil remediation, a cutting-edge approach to environmental restoration that combines artificial intelligence (AI) with traditional soil remediation techniques. This revolutionary method has the potential to transform the way we address soil pollution and promote sustainable land management practices.

Soil contamination is a major environmental issue, affecting millions of hectares of land worldwide. It is caused by various factors, including industrial activities, agricultural practices, and improper waste disposal. Polluted soil poses a significant threat to human health, as well as to the health of ecosystems and the organisms that inhabit them. Traditional soil remediation methods, such as excavation and landfilling, are often expensive, time-consuming, and can cause further environmental damage. In contrast, AI-driven soil remediation offers a more efficient, cost-effective, and environmentally friendly solution to this pressing problem.

DTG Reviews / [Read more](#)

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** – <https://www.emsa.europa.eu/newsroom/latest-news/item/3609-emsa-training-catalogue-2019.html>
- **FRANCE - CEDRE** - https://wwz.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

- **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

JUNE & JULY 2023

- **WEBINAR – Cedre – “Hydrocarbon Behaviour on the Guineese Coast”, 3rd July 2023**
- **UK – Socotec Summer Environmental Event in partnership with UK & Ireland Association, Bretby, Derbyshire, 29th June 2023**
- **WEBINAR from ALGA – “Tackling Challenges associated with Contaminants of Emerging Concern, Improving our Understanding of Risk, Fate, Effects and Removal Efficiency”, 11th July 2023, 12.00pm – 1.00pm, AEST**
- **WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Input of Oil to the Sea”, Webinar 18, 12th July 2023**

AUGUST 2023 & ONWARDS

- **WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Accidental Spill Mitigation”, Webinar 19, 1st August 2023**

UPCOMING EVENTS (CONTINUED)

- USA – AHMP Annual Conference, Nebraska, 27-30 August 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Oil Chemistry and Fates of Oil in the Sea”, Webinar 20, 5th September 2023
- AUSTRALIA – SPILLCON Conference & Exhibition, Brisbane, 11-15 September 2023
- AUSTRALIA – SPREP/IMO/ARPEL Workshop, “Developing Oil Spill Preparedness & Response Planning In Pacific Small Islands & other Developing States”, Brisbane, 15th – 17th September 2023
- USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Environmental Effects of Oil in the Sea “, Webinar 21, 3rd October, 2023
- THAILAND – Economist – “Global Plastics Summit”, Bangkok, 11-12 October 2023
- BRAZIL – International Seminar – ISCO & Ocean Pact Brazil “ Lessons Learned for Brazil & Latin America, Preparedness, Response & Crisis Management, Case Studies”, Rio de Janeiro, 27th October 2023
- ITALY – ECOMONDO Exhibition & Conference, Rimini, 7-12 November 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Human Health Effects of Oil in the Sea”, Webinar 22, 7th November 2023
- USA – Clean Gulf Conference & Exhibition, “Prepare, Respond and Recover”, San Antonio, TX, 7-9 November 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Round Table Discussion to provide Summary and Recommendations”, Webinar 23, 5th December 2023
- UK – Seatrade Maritime Salvage & Wreck Conference, 6-7 December 2023

SOME OTHER INFO

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

UK & Ireland Spill Association Alternative Marine Fuels And Their Implication For Spill Response Webinar is [now available to watch on YouTube.](#)

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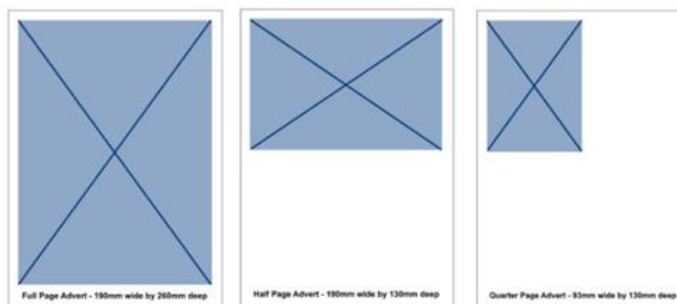
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SCIENCE COMMUNICATIONS IN A CRISIS - AN INSIDER'S GUIDE

Book Review by Ed Levine, NOAA (retired); Manager, SS&C, LLC; ISCO Executive Committee; and Vice-Chair NASEM Oil in the Sea IV report.

**Title: "Science Communications in a Crisis - An Insider's Guide" Author: Christopher Reddy
Published By: Earthscan**

Dr. Christopher Reddy (Ph.D.), a noted marine scientist and pollution researcher at Woods Hole Oceanographic Institute (WHOI), writes about his personal experiences dealing with pollution incidents from a scientific point of view. He offers his insights discussing findings with responders, the media, lawyers, and the general public. The author describes a great deal of the background surrounding an incident, behind the scenes details obtaining oceanographic data, and laboratory results for several prominent incidents (including the North Cape and Deepwater Horizon oil spills, and the Sri Lanka nurdle response) where he and other colleagues were involved. Then, via personal stories, discusses how he had successes and failures in relaying the pertinent results of his work.

The book is well written and easily readable by both scientific and non-scientific minded individuals. Chris has a folksy style of writing and speaking. In different chapters he explains the background on the various incidents he has responded to, as well as describing how he performs his work - from finding funding, obtaining a research vessel, taking samples, running analyses, crunching data to reach conclusions, and explaining the significance of the results. His sharing of how personally he was affected through some of the follow-up from his involvements is very moving. He offers insights for up-and-coming graduate students through tenured professors, as well as anyone else who needs to explain the importance and implications of their work.

Through the descriptions of life at sea and in the laboratory he provides insights as to how data is gathered and what it takes to perform science. This will help incident responders appreciate the behind-the-scenes efforts involved in gathering the data necessary to aid in decision making during a crisis.

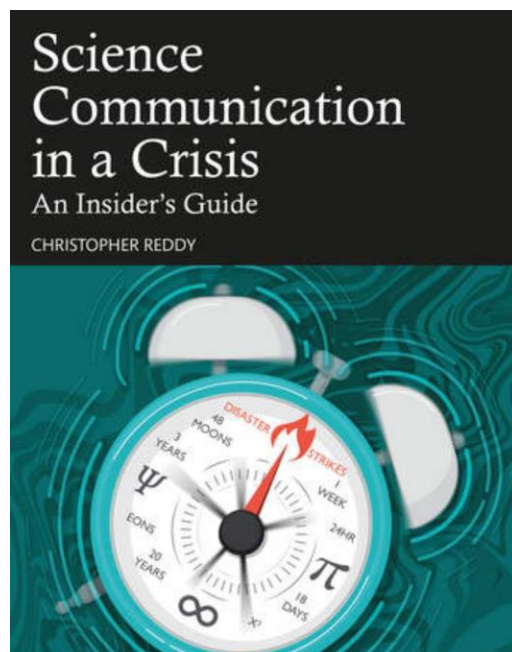
Two areas where the author could have offered greater clarity concerning aspects of scientific endeavors include: further defining the difference between monitoring and research; and identifying the need for communications and collaboration between operators/responders and the research community.

In the first case, scientific monitoring occurs during incidents to help inform command decisions, providing a feedback loop on the progress of response operations. Research is usually conducted between incidents to investigate hypotheses or determine long-term effects. The timeframes needed for data turn-around time are significantly different. During an incident data needs to be almost real-time, research takes months to years. Chris touches on this, but does not sufficiently emphasize the difference.

In the second case, again the author discusses how research is conducted, but misses an opportunity to explain the need to connect the response community with the research community. This dialog would help ensure the outcome of academic research having significant impacts on future knowledge for response decision making and operational effectiveness while potentially minimizing environmental impacts.

Outside of these two modest critique points, Chris hits the topics posed in the book square on and gives clear connections between cause and effect - how what he did and said made a positive, or at times, negative impact. Additionally, he offers rational and advice on how to improve the consequences of dealing with the media and explaining the impacts of one's scientific endeavors.

This book is highly recommended as an excellent source of information and inspiration for dealing with communicating science in a crisis, or any other time as well. Scientists as well as responders and decision-makers will certainly learn a thing or two from reading about Chris' experiences. Available through: <https://www.routledge.com/> or Amazon.com.



MESSAGES FROM EVENT ORGANISERS

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

The Australian Institute of Petroleum (AIP) and the Australian Marine Oil Spill Centre (AMOSOC) 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/>
<https://mailchi.mp/64c839ee8f69/spillcon-2023-delegate-bookings-open?e=ce373d43ca>

Early bird rates of \$1,645 (including GST) are available until 11th July - **BOOK NOW!**

A **Regional Workshop** has been organised by SPREP/IMO/ARPEL for the weekend immediately following Spillcon 2023. 15 - 17 September 2023 **Brisbane Convention & Exhibition Centre**. The **Regional Workshop** aims to share international experience and up-to-date knowledge on key issues of oil spill preparedness and response, aimed specifically at those based in the island nations of the South Pacific Area. It will also assist in the use of a suite of environmental management and governance tools for governments as well as present the experience gathered in other parts of the world with similar characteristics. Information, including the registration form for this Regional Workshop being held on 15 - 17 September 2023 in Brisbane, will be available [here](#). Should you have any additional questions please [contact Paul Irving at SPREP](#).

The Spillcon team is delighted to announce that Dr Jodie Lowinger has been confirmed as the keynote speaker for the final day of Spillcon 2023. Through her work as a High-Performance Coach to CEOs, Doctor of Clinical Psychology and anxiety, mindset and resilience expert, Dr Jodie Lowinger has the unique combination of a deep scientific understanding of the drivers of human behaviour with pragmatic knowledge of business strategy and building success through change. [Read more](#)

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. Clean Gulf Conference & Exhibition | November 7-9, 2023 | <https://ssl.linklings.net/conferences/IOSC/> Henry B. Gonzalez Convention Center | San Antonio, TX [Registration Now Open for CLEAN GULF 2023 + Sessions Announced!](#)

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

Scholarship Applications Now Accepted - In order to make it as easy as possible to attend this important conference, IOSC is launching the Scholarship Program. This program is intended to assist government representatives, academics, NGO's or those involved in spill response whose attendance will enhance preparedness in their region of the world. Scholarships are need-based and awarded to applicants only after review and approval by the IOSC 2024 Scholarship Committee.

Key Deadlines - Application site closes: June 29, 2023; Scholarship recipient selection: Late August 2023; Official notification: September 5, 2023 [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 Federal Contract Opportunities are posted at <https://clu-in.org/Federal-Contract-Opportunities>
European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter at - <https://www.emsa.europa.eu/newsroom/newsletters.html>

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JOB SEEKERS

Sajoon Kishore from Tamilnadu, India. I'd would like to pursue my career in environmental activities. I'm keen to work with your organisation. For more info please visit <https://spillcontrol.org/job-seekers/>

NEW PUBLICATIONS

TRI-STATE OILED WILDLIFE RESPONSE – NEW ISSUE OF OILED WILDLIFE LOG NEWSLETTER



In This Issue

- Diesel spill
continued on page 3
- Tri-State's
Involvement with
RRTs
- Partnering with AZA
to save confiscated
turtles

Dr. Wallace and OWRT staff member Katlyn Muse treat a Canada Goose from the January response.

[Download and Read the latest issue of Oiled Wildlife Log \(OWL\)](#)

GEF NEWSLETTER ISSUE 50



Latest news from the GEF

[Read the new newsletter](#)

EMSA CONSOLIDATED ANNUAL ACTIVITY REPORT 2022

The Consolidated Annual Activity Report provides a detailed account of the actions carried out in 2022.

Operational achievements are reported in Part I. The section is organised by activity and highlights the objectives of each activity, the intended output, the resources used and the actual results.

The remaining sections and annexes focus on the management of the Agency and the building blocks of assurance.

<https://www.emsa.europa.eu/publications/corporate-publications/item/4980-emsa-consolidated-annual-activity-report-2022.html>

MARITIME ACCIDENT REPORTS FROM THE MARITIME BULLETIN

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/>

NIGERIA: OGO NI COMMUNITIES FEAR WORSENING OIL SPILL AS SPDC INITIATES INVESTIGATION

June 19 - Shell Petroleum Development Company (SPDC) has verified the oil spill alert issued by certain groups and has commenced investigations. Following alerts raised by the Movement for the Survival of the Ogoni People (MOSOP) regarding the spreading spill, SPDC promptly responded and confirmed the occurrence of the spill on June 11.

The SPDC Emergency Response and Spill Response teams have been activated, subject to safety requirements, to mobilise to the site to take actions that may be necessary for the safety of environment, people and equipment. InvestorSking / [Read more](#)

AUSTRALIA: MELBOURNE RESIDENTS WARNED OF TOXIC WATER AFTER SPILL IN KOROROIT CREEK

June 20 - "EPA officers are investigating a chemical spill that is impacting stormwater in Brooklyn and water in Kororoit Creek downstream of GJ Hosken Reserve, Altona North," the EPA said. Emergency services were called to a factory in Brooklyn on Wednesday afternoon to reports of a chemical leak. The EPA has started a clean-up of the area and has contained the spill to an approximately 100m length of the creek. 7News / [Read more](#)

NIGERIA: CRUDE OIL SPILL ALERT: NEW SPILL OCCURS IN ELEME, OGO NI AREA

June 21 - The spill is reported in Eteo Community, about two weeks after a similar crude oil spill that has not yet been properly V

Members of the Youth Volunteers Network in the community and "Eteo Concerned Youths" told the Executive Director of YEAC-Nigeria, Fyनेface Dumnamene Fyनेface that the spill was first noticed on Sunday, June 18 in the Oke-Olebo Stream and has destroyed the indigenous community's fresh water bodies and the naturally environment and continuous to spread to larger areas as it is flowing with the water in its bank and channel. ElanHub / [Read more](#)

FIJI: INVESTIGATIONS CALLED FOR SUSPECTED OIL SPILL

June 22 - The Pacific Recycling Foundation is urging authorities to investigate a suspected oil spill along the Nasese foreshore. PRF Founder Amitesh Deo emphasizes the need for immediate attention from authorities and agencies to address the situation.

VENEZUELA: OIL SPILL THREATENS VENEZUELA COMMUNITY

June 23 - An oil spill on Thursday in Maracaibo, Venezuela. The Azul Ambientalistas foundation denounced the 'state of emergency' in which the largest lake in Venezuela, the Maracaibo Lake, finds itself, due to the oil spill that is affecting the lake economy and the health of the people. <https://news.abs-cbn.com/overseas/multimedia/photo/06/23/23/oil-spill-threatens-venezuela-community>

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