

## 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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### President, Secretary General & Vice-Presidents

- Nominee for an Acting President (TBA)
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- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalgleish, VP M'ship (USA)

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- Mr Kerem Kemerli (Turkiye)
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- Mr Neil Marson (UK)
- Mr John McMurtrie (UK)
- Ms Mary Ann Dalgleish (USA)
- Captain Bill Boyle (UK)
- Mr John Wardrop (Australia)
- Mr Marc Shaye (USA)
- Mr Michael Watson (UK)

## INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



## IMO GUIDELINES ON PLACES OF REFUGE UPDATED

July 7 - The IMO guidelines on Places of Refuge have been updated adding clarity and the necessary common framework where more than one coastal state is involved. The updated guidelines are expected to be approved at the Maritime Safety Committee and then adopted at the IMO Assembly later this year.

The guidelines recognise that when a ship has suffered an incident, the best way of preventing damage or pollution is to transfer its cargo and bunkers, and to repair the ship in a so-called place of refuge. Such an operation may endanger the coastal or port state, both economically and from an environmental point of view, and local authorities will have to be involved and approve such an operation.

In 2019, BIMCO co-sponsored a proposal on the revision of the guidelines on places of refuge for ships in need of assistance. The new update in 2022 has been made more practical, giving guidance to coastal states, salvors, shipowners, flag states and other entities that will be involved in such an incident.

The IMO has had such guidelines in place since 2003. However, over time, complex situations have been encountered, for example, when a ship suffers a break down outside the jurisdiction of any coastal state, or when more than one coastal state is involved. It was felt that there is need for clarification and a common framework to assist coastal states in determining places of refuge.

With the above in mind, the IMO accepted the co-sponsored paper in 2019 and after discussions over several sessions at the Navigation Communication, Search and Rescue (NCSR) sub-committee, a set of draft guidelines was agreed at the sub-committee level.

The updated guidelines not only clarify the above-mentioned situations, but also have been drafted keeping the different parties involved and addressing them directly. For example, a ship master can directly go to section 2.1 of the guidelines to see what is required of them and a salvor can read 2.2 to see their part.

The updated guidelines will be sent to the Marine Safety Committee (MSC) 106 which meets in November 2022 for subsequent approval and adoption by the Assembly. BIMCO / [Read more](#)

## ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

Carlos Sagrera Latin America (Spanish speaking)  
Matthew Sommerville UK London  
John Noble UK London & South'ton  
Wu Yue China

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## YOU ARE INVITED TO JOIN THE ISCO DISCUSSION GROUP ON LINKED-IN



Click on the link below –

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## WHATSAPP GROUP FOR STUDENTS, TRAINEES & APPRENTICES

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<https://chat.whatsapp.com/KMxdW7IEal79namyNlbVqg>

## ADVANCE YOUR CAREER BY GAINING PROFESSIONAL RECOGNITION

Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment. All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO. The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications. You can apply for MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

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# ISCO NEWS

## NEXT VOLUNTEERS & MEMBERS ZOOM MEETING

The next meeting will be on Thursday 21<sup>st</sup> July at 3 pm EST / 7 pm GMT / 8 PM BST or the equivalent time in your own time zone.

Here is the link for joining the meeting: <https://us02web.zoom.us/j/5220550000>

At time of writing your editor has not yet received the agenda for the next volunteers and members' zoom meeting but in my capacity as editor of the weekly ewslatter I would very much appreciate feedback from members and readers.

At the meeting I would like to hear your views on –

- Ideas on improving the content of the newsletter and boosting our readership
- Thoughts on the delivery of the newsletter – Should it continue to be delivered by email? Should it become more of a website-based production? Or should email delivery and website options be run in parallel?
- I would like to receive more news from different countries from readers, especially from our Members of Council (national representatives).
- More input from our Student Members would be a big help
- Ideas for increasing the number of paying members to improve ISCO's funding
- Your editor checks websites of many organisations and environmental agencies but can't manage to engage with multiple social media platforms – Relaying of interesting news from social media outlets would help avoid missing out on useful content that isn't posted on websites.

## MEETING OF ISCO'S EXECUTIVE COMMITTEE

The Executive Committee held a meeting on Zoom on the evening of Thursday 14<sup>th</sup> July. A key decision made was the approval of an Action Plan to fully implement the revised 2021 ISCO Constitution.

The main purposes of the Action Plan is to –

- Agree the actions required to fully implement the 2021 Constitution
- Definition of ISCO's forward development strategy
- Implement an improved Management System and Business Plan

A Transition Team will be responsible for driving the carrying through of the Action Plan in a phased manner with focus on prioritising the most important aspects needed to improve the ways in which ISCO works to achieve its objectives.

The target is to achieve increased efficiency in the management of the organisation and assure its long term future on a stable basis.

The ISCO Newsletter will report on progress being made in the implementation of the Action Plan.

One of the identified priorities is to improve and extend member participation in Working Groups with defined membership, task allocation, and regular progress reporting.

## ISCO RESPECTS YOUR PRIVACY - UNSOLICITED MAIL

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

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25 ANOS



### OSPAR LAUNCHES 2ND MARINE LITTER REGIONAL ACTION PLAN AT THE UNITED NATIONS OCEAN CONFERENCE IN LISBON (PORTUGAL)

June 28 - OSPAR launches [2nd Marine Litter Regional Action Plan at the United Nations Ocean conference in Lisbon \(Portugal\)](#).

The OSPAR Commission launched its 2<sup>nd</sup> Regional Action Plan to tackle marine litter (RAP ML 2) in the North-East Atlantic at a side event at this year's United Nations Ocean Conference in Lisbon (Portugal) on 28 June 2022. The plan will target marine pollution problems affecting the North-East Atlantic such as:

- tackling litter from rivers
- phasing out additional single use plastic items
- reducing microplastic releases from shipping
- addressing litter from aquaculture and commercial and recreational fishing
- developing measures to control or phase out plastic substances contained in offshore chemicals. OSPAR / [Read more](#)

### UN WARNS OF TOXIC ENVIRONMENTAL LEGACY FOR UKRAINE, REGION

July 4 - Preliminary monitoring of the conflict in Ukraine points to significant impacts on urban and rural environments that could leave the country and region with a toxic legacy for generations to come, according to initial impact monitoring conducted by the United Nations Environment Programme (UNEP) and partner organizations

The full range and severity of consequences will require verification and assessment, although thousands of possible incidents of air, water and land pollution and the degradation of ecosystems, including risks to neighbouring countries, have already been identified.

UNEP, the environment authority within the UN system, is supporting the Government of Ukraine on [remote environmental impact monitoring](#) and is preparing to undertake field-level impact assessments – expected to be a colossal task given the scale and geographical spread of reported incidents. UNEP / [Read more](#)

### WORLD LOOKS AWAY AS OIL DISASTER LOOMS OFF YEMEN'S COAST

July 11 - Off the coast of Yemen lies an aging oil tanker that could rupture at any moment. Experts say it's not a matter of if but when the FSO Safer leaks more than one million barrels of light crude oil into the sea — four times the amount spilled in the Exxon Valdez disaster of 1989.

Environmental groups warn that one of the worst man-made environmental crises in history is imminent. But few governments are willing to open their wallets to prevent it.

"If we don't act to prevent the breakup of the Safer, then there will be a massive oil spill the likes of which the world has not seen," US special envoy for Yemen Tim Lenderking told Al-Monitor in an interview.

Lenderking likens the decades-old vessel to a ticking time bomb that could unleash "catastrophic consequences economically and environmentally."

Time is of the essence. The UN had hoped to start work in July, giving crews enough time to carry out the four-month operation before high winds and turbulent currents increase the likelihood of the Safer breaking apart. Al Monitor / [Read more](#)

### SEA ALARM: TWO EU PROJECTS FOCUSING ON HOLISTIC AND INTEGRATED MANAGEMENT

July 11 - Sea Alarm is involved in two EU projects that focus on integrated management of marine incidents, the IRA-MAR project and the MODEX-DBX project.

As part of the 'Improving the Integrated Response to Pollution Incidents at Sea and Chemical Risks in Port' (IRA-MAR) project, Sea Alarm will carry out a pilot study to explore what European countries can do to improve "holistic and integrated management" of marine pollution incidents.

In their 10-year action plans/strategies, both the Helsinki Convention and the Barcelona Convention aim to "develop a framework for holistic integrated management of marine pollution incidents that enable coordinated response operations at sea and on shore" (Helsinki: Action S32; Barcelona: Action 1.3.4). In its Strategy Action Plan, the Bonn Agreement has a similar objective under Action C.5: "Promote links and coordination with shoreline response". Sea Alarm / [Read more](#)

## CARIBBEAN: OIL SPILLS FOCAL POINTS MEET TO DISCUSS THE REGION'S PRIORITIES FOR 2022-2023



July 11 - The Tenth Ordinary Steering Committee Meeting of the Regional Marine Pollution Emergency, Information and Training Centre – Caribe (RAC REMPEITC-Caribe) was held in Willemstad, Curacao from 18th to 19th May 2022.

Focal points of the Cartagena Convention's Oil Spills Protocol met to review the status of implementation of RAC REMPEITC-Caribe's 2018-2021 work programme, review and endorse the 2022-2023 work plan, and develop recommendations for

adoption by the 20th Intergovernmental Meeting on the Action Plan of the Caribbean Environment Programme and 17th Conference of Parties to the Cartagena Convention. Also present at the meeting were representatives from the Cartagena Convention Secretariat, International Maritime Organization (IMO), the Government of Curacao and partner organizations that attended as observers. UNEP / [Read more](#)

## EMSA TAKES ACTIVE ROLE IN EUROPE'S LEADING OIL SPILL CONFERENCE & EXHIBITION - INTERSPILL 2022

*Back to a face-to-face setting for Interspill 2022 in Amsterdam*

Interspill returned to Amsterdam on 21-23 June in its 9th edition, offering a unique opportunity for oil and HNS spill professionals to gather together in this face-to-face event comprising both a conference and exhibition as part of a

triennial series of international events in the field. The opening keynotes set the tone for the event with interventions from Sander Winckels (Rijkswaterstaat), Morten Mikkelsen (chair of IPIECA) and our Executive Director, Maja Markovčić Kostelac.

The conference covered a range of contemporary topics, including contingency planning and preparedness, as well as shoreline, subsea, inland and offshore response, with special sessions on outreach and communication as spills always affect communities and stakeholders. EMSA participated fully: leading a workshop with the European Commission's Directorate General for European Civil Protection and Humanitarian Aid Operations (DG ECHO), focused on emergency response in the event of a chemical incident; chairing a session on shipping risks; acting as moderator at the diversity and inclusion event; and, delivering presentations on alternative fuels, the evolution of the CleanSeaNet service; the use of Remotely Piloted Aircraft in oil pollution response, and the MAR-ICE Network set up in conjunction with Cedre and Cefic to help in the critical risk assessment of chemical incidents at sea. EMSA staff were also on hand at the exhibition stand offering insight into the Agency in its 20th anniversary year, EMSA services in action, and virtual reality ship inspections. EMSA / [Read more in the July 2022 EMSA Newsletter](#)

## MINIMISING RISK WHEN EXPLORING THE ARCTIC



*Image courtesy of Wavefront*

July 13 - The further we travel into uncharted waters, the higher the chance of collision or grounding. The underwater environment is unseen and obstacles lurk just below the surface. The recent Norwegian Sun Cruise incident in Alaska demonstrates just how treacherous our untamed oceans can be.

While the damage caused after their collision with a 'growler' is a rare occurrence, it has undoubtedly caused the company to lose a lot of money. The Arctic cruise was

curtailed and the ship was re-routed to Seattle for repair. This is not the kind of situation any seafaring vessel can afford.

The upside is that it doesn't need to be this way. There is technology available which allows crews to manage the risks of embarking on discovery voyages, whether it be the icy waters of the Arctic or the warmer Pacific Ocean. The Maritime Executive / [Read more](#)

The products and services herein described in this press release are not endorsed by The Maritime Executive.

### **BARBADOS: UN NEWS PODCAST SERIES: BARBADOS AND THE BLUE ECONOMY**

July 11 - In the lead up to the United Nations Ocean Conference, the United Nations Department of Global Communications explored some of the ocean-related issues facing the eastern Caribbean island nation of Barbados.

The feature was documented by Conor Lennon in a four-part podcast series. Episode 2 highlights the national hedgerow planting project at the National Botanical Gardens, which is the intervention site of the GEF IWECO Barbados sub-project.

Episode 1. [Barbados and the Blue Economy - Sargassum Solutions](#)

Episode 2. [Barbados and the Blue Economy: Hope and hedgerows](#)

Episode 3. [Barbados and the Blue Economy - Restoring the reef](#)

Episode 4. [Barbados and the Blue Economy – Return of the turtles](#)

[Click here to listen to the full series.](#) Visit the GEF IWECO website to view the project's biodiversity poster series and download a copy of the poster for Barbados: <https://iweco.org/countries/barbados>.

### **CANADA: MINISTER GUILBEAULT CONCLUDES FIRST VISIT TO WASHINGTON, D.C., FOCUSED ON ENVIRONMENTAL COLLABORATION WITH THE U.S.**

July 13 - Canada and the United States are uniquely positioned as two of the most interdependent countries in the world, in terms of mutual prosperity and security, with a shared ability to drive the net-zero economy of the future.

On his first official visit to the United States Capitol since being appointed into the role, Canada's Minister of Environment and Climate Change, the Honourable Steven Guilbeault, held multiple meetings over two days with key U.S. federal counterparts, senior Administration officials, thought leaders and non-governmental organizations, and Canadian Executive Directors to International Financial Institutions. Environment & Climate Change Canada / [Read more](#)

### **COLOMBIA: GEF CEO WELCOMES LEADERSHIP OF COLOMBIA IN EXPANDING MARINE PROTECTED AREAS**

July 1 - The Global Environment Facility joined other partners and supporters to celebrate the achievements of Herencia Colombia (HECO) on the margins of the UN Ocean Conference in Lisbon.

HECO plans to ensure the conservation and long-term financing of nearly 30 million hectares of protected landscapes and seascapes, equivalent to 14 percent of the Colombian territory.

The GEF, the world's largest funder of protected areas, was an early investor in the initiative. Last month, the GEF Council approved a \$25 million grant to the Enduring Earth partnership to support Colombia's leadership in protecting 30 percent of its ocean area and landmass by 2030. GEF / [Read more](#)

### **INDONESIA: STRONG ESG IMPLEMENTATION GETS PERTAMINA INTERNATIONAL RECOGNITION**

July 12 - State-owned oil and natural gas corporation PT Pertamina has gained recognition from several international institutions over its strong implementation of the environmental, social, and governance (ESG) approach this year.

Pertamina's ESG implementation, which is getting stronger, has attracted international interest, as seen from the acknowledgment from a number of institutions and international awards, the company stated in a release received here on Tuesday.

Antara News / [Read more](#)

### **MONTENEGRO: WILDLIFE PLANNING: STAKEHOLDER WORKSHOP AND FACT-FINDING MISSION**



July 11 - Montenegro is in the process of redrafting its National Contingency Plan (NCP). As part of this process, Sea Alarm has been invited to assist with the development of a National Oiled Wildlife Response Plan for the country and to provide training courses for national stakeholders of the plan.

During June and July Sea Alarm, together with two organisations from the EUROWA Network (WRCO and ProBird), completed the first part of the national oiled wildlife response plan project, carrying out a field fact finding mission in Montenegro and a one-day stakeholder workshop, financed by the Hydrocarbon Administration Training Program.

Sea Alarm / [Read more](#)

### USA: LATEST NEWS REPORTS FROM NOAA OR&R

July 11 – Please click on the links below to read the latest News Reports from NOAA OR&R

#### [OR&R Joins Congressman Adriano Espaillat and Partners on a Harlem River Environmental Justice Tour](#)

OR&R Director Scott Lundgren participated in an Environmental Justice vessel tour of the Harlem River hosted by Congressman Adriano Espaillat in conjunction with the [Bronx and Harlem River Watersheds Urban Waters Federal Partnership](#)([link is external](#)), Harlem River Working Group, Bronx Council for Environmental Quality, Hudson River Foundation, and WE ACT.

#### [OR&R Visits Joint Coastal Response Research Center and Visiting University of Puerto Rico Students](#)

OR&R Director Scott Lundgren visited the joint OR&R and University of New Hampshire [Coastal Response Research Center](#)([link is external](#)) on June 23, 2022. This visit provided the opportunity to hear from the center's staff, student researchers, and visiting University of Puerto Rico students working on OR&R-related CRRC projects and other related environmental projects at the university for two months during the summer.

#### [OR&R Provides SCAT Field Training with the U.S. Coast Guard in the Pacific Northwest](#)

On June 21, 2022, the NOAA Scientific Support Coordinator for the Pacific Northwest CDR Faith Knighton and Regional Response Officer LTJG Kyle Vincent provided [Shoreline Cleanup and Assessment Technique](#) (SCAT) Field Training to 10 members from the U.S. Coast Guard Sector Columbia River.

#### [OR&R Scientists Participate in Interspill 2022](#)



*From left, Gary Shigenaka, Chris Barker, and Mark Dix from OR&R's Emergency Response Division participate in InterSpill 2022.*

Scientists from NOAA's Office of Response and Restoration recently participated in an [Interspill conference](#)([link is external](#)) held June 21-23, 2022 in Amsterdam. This event is part of the triumvirate series including the International Oil Spill Conference (U.S., 2024) and Spillcon (Australia, 2023).

Representing NOAA, Chris Barker from OR&R's Emergency Response Division presented on the progress of the GNOME suite of tools for modeling oil spill fate and transport. ERD Deputy Chief Mark Dix offered a platform presentation on recent work done using artificial intelligence to identify vessel targets for cleanup following hurricanes.

#### [OR&R Briefs American Association of Port Authorities on Benefits of ESI Data](#)

*NOAA Ship Okeanos Explorer in port in Norfolk, Virginia, in 2019. Image courtesy of the NOAA Office of Ocean Exploration and Research.*

The nation's ports are vital links for the movement of people and goods, and their protection is of critical importance. Recently, the manager of OR&R's Environmental Sensitivity Index program and the chief of OR&R's Emergency Response Division gave a presentation to the American Association of Port Authorities about the benefits of using ESI data to support port activities across the country. The association represents port authorities from all corners of the United States and is invested in helping them reduce their environmental impact and maintain compliance with environmental regulations.

#### [Environmental Sensitivity Index Map Presentation to Michigan Responders](#)

Recently, LCDR Rachel Pryor presented at the Environmental Emergency Management Conference hosted by Michigan's Environment, Great Lakes, and Energy state department.

#### [OR&R's Disaster Preparedness Program Announces Internship Opportunity](#)

OR&R's Disaster Preparedness Program is currently seeking a college intern who is passionate about disaster preparedness and excited to explore questions on human behavior and disasters.

#### [Disaster Preparedness Program and Homeland Security Program Office Partner to Hold NOAA's National Level Exercise](#)

On June 14-16, 2022, the Disaster Preparedness Program (DPP) partnered with the Homeland Security Program Office to hold NOAA's National Level Exercise. This exercise – based on FEMA's NLE scenario – simulated an entire rupture of the 700-mile Cascadia

## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

Subduction Fault which would severely impact the states of Washington, Oregon, California, Hawaii and the Pacific Islands, as well as parts of Canada. This devastating, hypothetical scenario would heavily impact NOAA personnel, mission, and infrastructure in these areas. Not only would the earthquake cause major damage, it was followed in the scenario by aftershocks, a tsunami, and a Spill of National Significance (SONS).

### [Marine Debris Program Staff Train Volunteers and Clean Up Beach in Willapa Bay National Wildlife Refuge](#)

On June 17, the Marine Debris Program's Pacific Northwest Regional Coordinator Andrew Mason and Monitoring Coordinator Hillary Burgess met with partners from the Grassroots Garbage Gang and Willapa Bay National Wildlife Refuge on the Long Beach peninsula of Washington.

### [Marine Debris Program Welcomes NOAA Experiential Research and Training Opportunity Intern](#)

In May, the Marine Debris Program welcomed Elena Aguilar as part of the [NOAA Experiential Research and Training Opportunity](#) internship program.

### [Bipartisan Infrastructure Law Grant Opportunity for Marine Debris Removal Projects](#)

On June 29, the NOAA Marine Debris Program announced the Fiscal Year 2022 NOAA Marine Debris Removal notice of funding opportunity. Funding for this opportunity is provided through the Bipartisan Infrastructure Law.

### [Marine Debris Program Participates in UN Ocean Conference Side Event on Plastic Pollution](#)

On June 28, NOAA Marine Debris Program Director, Nancy Wallace, participated in an [official side event\(link is external\)](#) as part of the UN Ocean Conference. The virtual panel discussed the issue of plastic pollution with a specific emphasis on answering what key science and innovation is needed to tackle this global environmental challenge.

## USA: ONE MILLION GALLONS OF OIL CONTAINED AT LONGEST U.S. SPILL

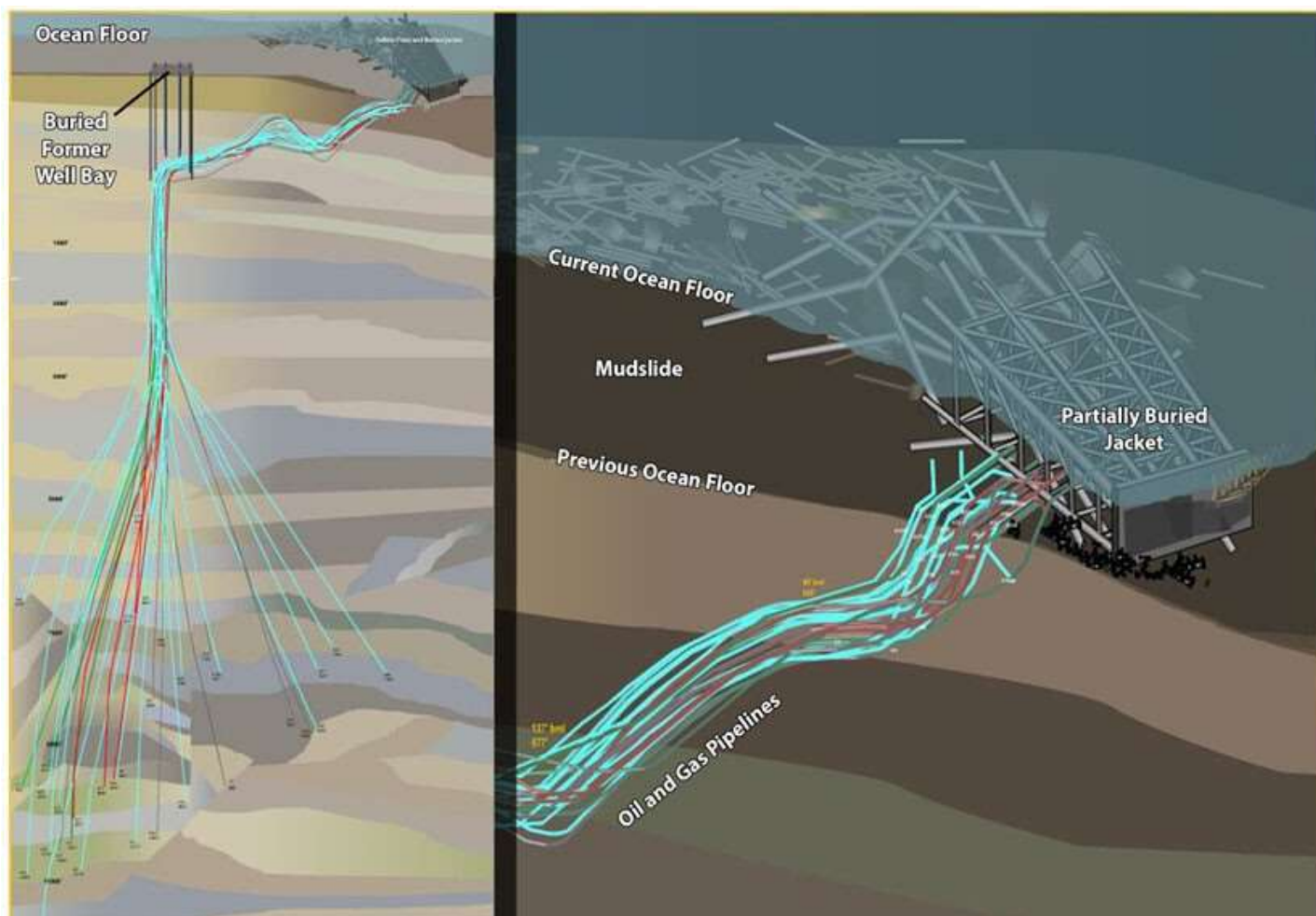


Illustration of the collapsed well jacket and damaged pipes from Taylor Energy's Mississippi Canyon 20 Platform in the Gulf of Mexico. Credit: NOAA

July 12 -Eighteen years ago, in September 2004, Taylor Energy's MC20 oil production platform collapsed in an underwater mudslide caused by Hurricane Ivan, spilling oil into the Gulf of Mexico from the well site.

The platform was located in the Gulf, 13 miles from the mouth of the Mississippi River. Today, crude oil continues to discharge from the well site and surface on the Gulf waters.

## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

This week marks the milestone of more than one million gallons of oil collected and removed from the environment by the Coast Guard.

An oil containment system was designed, created and installed in 2019 by Couvillion Group LLC, the Belle Chasse, La.-company selected and hired by the Coast Guard. While the spill remains active, the containment system captures oil as it emerges under the surface and experts continue to work on a permanent solution. The highly effective containment system, daily Coast Guard oversight and scientific support from NOAA and other federal agencies made this milestone possible. [Workboat / Read more](#)

## USA: SOUTH CAROLINA - GOVERNOR SEEKS TO PROTECT PORT FROM LANDMARK'S POLLUTION

July 11 - The nation's ninth-busiest port is at risk of pollution by more than 100,000 gallons (378,500 liters) of fuel from a Navy aircraft carrier that served in World War II and the Vietnam War before its decommissioning and designation as a National Historic Landmark.

The USS Yorktown — located in Charleston Harbor — is experiencing continued corrosion on its outer hull. If hazardous materials leak into the harbor, Republican Gov. Henry McMaster warned it would impair commercial shipping and harm the ecosystem. [The Washington Post / Read more](#)

## PEOPLE IN THE NEWS

### NEW PRESIDENT ELECTED FOR THE NAUTICAL INSTITUTE



The newly elected President of The Nautical Institute, Captain Nick Nash has pledged to help in its efforts to improve standards of shiphandling and bridge resource management.

Nash is Senior Master for Carnival Corporation's 144,000 GRT, 3650 passenger vessel the Royal Princess. He also teaches at the group's simulator training facility in Amsterdam, where he is a part-time lecturer on bridge resource management and shiphandling.

The AGM saw further changing of the guard. Captain James Robinson handed over as Chairman of the Institute's Executive Board to Peter Hinchliffe, and Captain Robbie Middleton handed over his role of Treasurer to Captain Duncan Telfer. [The Maritime Executive / Read more](#)

### AMOSC APPOINTS NEW ADMINISTRATION OFFICER

Michelle Checcucci joined the Geelong AMOSC office as the Administration Officer in May 2022.

Michelle comes from a fast-moving consumer goods platform working as a Department Manager and specialising in general merchandise and the areas of inventory management protection, auditing/compliance and training.

After 15 years Michelle commenced working within Employment Services as a Job Search Trainer and Consultant before moving into the Recruitment industry. Prior to joining AMOSC, Michelle worked in the Education Sector for 12 years, coordinating apprentices and trainees including managing the life cycle of a student's learning. [amosc@amosc.com.au](mailto:amosc@amosc.com.au)



## 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.

### 72. Floating treatment wetlands for the bioremediation of oil spills: A review,

Stanley, M., Palace, V., Grosshans, R., Levin, D.B. (2022)  
Journal of Environmental Management, 317, art. no. 115416,  
DOI: 10.1016/j.jenvman.2022.115416

**ABSTRACT:** Conventional oil spill recovery may cause significant damage to shoreline habitats during the removal of oiled material and from human and equipment interaction. In addition, these methods are costly and can leave a significant amount of residual oil



in the environment. Biological remediation strategies may be a less invasive option for recovering oil from sensitive regions, with potential to increase recovery. Floating treatment wetlands are a growing area of interest for biodegradation of oil facilitated by plant-bacterial partnerships. Plants are able to stimulate microbial colonization in the rhizosphere, creating greater opportunity for contaminant interaction and degradation. A literature review analysis revealed thirteen articles researching this topic, and found that floating treatment wetlands have high potential to degrade oil contaminants. In some instances, plants and inoculated bacteria exhibited the highest degradation potential, however, plants alone had higher degradation potential than bacteria alone. Research is needed to explore how floating treatment wetlands perform in field-based trials and under variable environmental conditions.

### **73. Legacy and dispersant influence microbial community dynamics in cold seawater contaminated by crude oil water accommodated fractions**

Hafez, T., Ortiz-Zarragoitia, M., Cagnon, C., Cravo-Laureau, C., Duran, R. (2022)  
*Environmental Research*, 212, art. no. 113467, .  
 DOI: 10.1016/j.envres.2022.113467

**ABSTRACT:** Dispersants, used for combating oil spills, increase hydrocarbon bioavailability promoting their biodegradation. Oil weathering process introduces harmful soluble hydrocarbons, such as polycyclic aromatic hydrocarbons (PAHs), into the water column, resulting in water-accommodated fraction (WAF). The presence of dispersants can influence the weathering process by increasing PAHs solubility, toxicity and biodegradability. However, little is known on how dispersants affect microbial communities and their degradation capacities, especially in cold environment where low temperature decreases microbial activity and thus hydrocarbon degradation. Here, we investigated the microbial community dynamics in cold water contaminated by WAF prepared from crude oil with or without a commercial dispersant (Finasol OSR52). The WAFs, prepared with Naphthenic North Atlantic crude oil, were used to contaminate seawater from Norwegian cold sites, one oil-contaminated and the other pristine. The WAF-contaminated seawaters were maintained in microcosms at 4 °C for 21 days. The content of PAHs and microbial compositions (16S rRNA gene sequencing) were determined at days 0, 7, 14 and 21. In addition, the 96 h toxicity assay with adult *Acartia tonsa* revealed WAFs toxicity at days 0 and 21. The toxicity of WAF mixtures, with and without dispersant, against *Acartia tonsa* was reduced during the experiment, but PAHs removal was not increased. The water from the oil-contaminated site showed the highest PAHs removal revealing legacy effect (presence of microorganisms adapted to PAHs). Additionally, our results reveal: i) microbial community plasticity allowing the adaptation to the presence of PAHs and dispersant, ii) specific bacteria taxa probably involved in PAHs degradation, and iii) dispersants shape the microbial communities dynamics by stimulating potential dispersant-degrading taxa, such as *Fusibacter*. Thus, our results provide valuable insights on the role of microbial community in determining the fate of water-solubilized hydrocarbon in cold environment while questioning the role of dispersant used for fighting oil spill.

### **74. Oil spills enhanced dispersion and transport of microplastics in sea water and sand at coastal beachheads**

Gui, X., Ren, Z., Xu, X., Chen, X., Zhao, L., Qiu, H., Cao, X.  
 (2022) *Journal of Hazardous Materials*, 436, art. no. 129312, .  
 DOI: 10.1016/j.jhazmat.2022.129312

**ABSTRACT:** The coastal zone is being under the threat by accumulation of microplastics (MPs), with much of MPs ending up on the beachhead. Oil spills, which frequently happen in coastal zones due to oil pipe leakage or oil drilling, may affect the behavior of MPs in the beachheads. Herein, sea water and sea sand were collected from three different coastal beachheads including Bohai Sea (BS), East Sea (ES), and South Sea (SS), China, to investigate how the oil spills affect the dispersion and transport of MPs in sea water and sand. The oil spills greatly enhanced the dispersion of MPs in all three sea waters by forming MPs-oil-dispersant agglomerates, which increased the electrostatic repulsion and steric hindrance between MPs particles. Accordingly, the aggregation rates of MPs were reduced from 1.7–8.86 nm min<sup>-1</sup> to 0.39–1.29 nm min<sup>-1</sup>. The lowest salinity and highest dissolved organic carbon content in SS sea water favored the highest dispersion of MPs, compared to BS and ES sea water. The improved dispersion of MPs with oil spills enhanced their transport in sea sand with an increase of effluent rates from 0–18.8 % to 5.78–42.2 % for BS and from 30.5–45.2 % to 35.0–60.0 % for SS one. However, the transport of MPs in ES sea sand was lower than 3.62 %, even with oil spills, which was attributed to the strong adsorption of MPs by the rich Fe/Al oxides in ES sea sand through electric attraction. Modeling also showed that oil spills increased the migration rate of 10 mg g<sup>-1</sup> MPs accumulated in the surface 0–1 cm sea sand from 6.50–13.8 cm year<sup>-1</sup> to 8.17–16.7 cm year<sup>-1</sup> after 1500 mm rainfall for 3 years, and the strongest transport of MPs was observed in SS sea sand, with the highest cumulative flux and the longest maximum migration depth as 0.089–0.120 mg/cm<sup>2</sup> and 50 cm, respectively. These results indicated that the dispersion and transport of MPs can be enhanced by oil spills, but regulated by sea water salinity for MPs dispersion and sea sand Fe/Al oxides for MPs transport, which advanced our understanding of the transport and transformation of MPs in coastal zones.

### **75. Effects of oil properties on the formation of oil-particle aggregates at the presence of chemical dispersant in baffled flask tests**

Li, W., Yu, Y., Xiong, D., Qi, Z., Wang, W., Qi, Y. (2022)  
*Journal of Hazardous Materials*, 436, art. no. 129227,  
 DOI: 10.1016/j.jhazmat.2022.129227

**ABSTRACT:** The formation of oil-particle aggregates (OPA) is the major sedimental pathway of spilled oil, which can bring great harm to both the benthic communities and marine environment. In this paper, effects of GM-2 chemical dispersant and oil properties on the formation of OPA was investigated by the EPA baffled flask test. The addition of dispersant can promote the formation of OPA

## RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

from montmorillonite and five test oils obviously. With the increase of the dispersant dosage, the size of trapped oil in OPA increased and the density of OPA decreased. The dispersant can increase the kinematic viscosity of crude oil, and high viscosity of the oil is advantageous for the formation of OPA. The oil-seawater interfacial tension is reduced after the addition of dispersant, which makes oil dispersed into the water column easier. A kinematic equation of dispersed oil concentration attenuation was modified by introducing the oil property coefficient  $\beta$ . The modified empirical equation can calculate the mass of oil in sunken OPA in oil spill accidents.

### 76. Oil biodegradation in permeable marine sediments: Effects of benthic pore-water advection and solute exchange

Geng, X., Barker, C.H., MacFadyen, A., Boufadel, M.C., Lee, K., Thrift-Viveros, D.L., Jones, R., O'Connor, C. (2022) *Journal of Hazardous Materials*, 436, art. no. 129211, DOI: 10.1016/j.jhazmat.2022.129211

**ABSTRACT:** Oil spills have been recognized as among the worst kinds of environmental disasters, causing severe coastal ecological and economic damages. Although benthic flow and solute fluxes are known to have strong impacts on fate and transport of oil deposited within marine sediments, their endogenous mechanisms still remain to be uncovered. In this paper, simulations of flow and solute transport processes along with hydrocarbon biodegradation were conducted in a cylindrical benthic chamber system to investigate influences of benthic hydrodynamics on oil biodegradation in permeable marine sediments. Results show that ripple-flow interactions create subsurface recirculation cells whereby seawater infiltrates into the benthic sediments at ripple troughs while groundwater discharges near the crests. It results in a spatially varied oil biodegradation rate in marine sediments. Significant oil biodegradation occurs near sediment ripple troughs due to direct oxygen recharge, while biodegradation of oil deposited uphill becomes slow due to limited oxygen replenishment. Oil biodegradation decreases subsurface oxygen content, and consequently impedes discharge of oxygen from benthic sediments. Our results reveal a dynamic interaction between oil biodegradation and benthic flow and solute transport processes, which has strong implications for predicting oil persistence and biodegradation within marine sediments and its associated impacts on benthic biogeochemical processes.

### 77. Mesoscale evaluation of oil submerging and floating processes during marine oil spill response: Effects of dispersant on submerging stability and the associated mechanism

Fu, H., Li, H., Bao, M., Liu, Y., Wei, L., Ju, L., Cao, R., Li, Y. (2022) *Journal of Hazardous Materials*, 436, art. no. 129153, DOI: 10.1016/j.jhazmat.2022.129153

**ABSTRACT:** The migration of oil spills in marine environment is still not clear, especially the key processes of submerging and floating, which is an important concern for effective disposal of oil spills. In mesoscale wave tank (32 m × 0.8 m × 2 m), this study has evaluated the characteristics of oil submergence based on oil concentration and oil droplet size. The concept of effective submergence is put forward for the first time, utilized to analyze the effects of dispersant on submerging stability and associated mechanisms. The results indicate dispersants increase submerged oil concentration and promote homogeneous distribution and vertical penetration. Of concern is that dispersants increase the proportion of small oil droplets (2.5–70  $\mu\text{m}$ ), prolonging the residence time of oil droplets in water by delaying the floating process. Dispersants sharply reduce oil droplets size (VMD < 44  $\mu\text{m}$ ) thus decreasing the coalescence probability. These contribute to better submerging stability. By contrast, the submerged oil, formed as oil patches, oil streamers, and large oil droplets (VMD > 170  $\mu\text{m}$ ) when without dispersant, will float and reattach to oil slicks more quickly due to their large volume. These findings help to clarify spilled oil behaviors and provide a new idea for the research on oil submergence.

## NEWS FROM ISCO MEMBERS

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

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

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- INTERNATIONAL – IMO E-LEARNING PLATFORM [e-learning platform](#)
- AUSTRALIA – AMOSC - <https://amosc.com.au/training/>
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- EUROPE – EMSA Academy 2022. [Courses Catalogue](#)
- FRANCE - CEDRE - Click on these links [training catalogue](#) and [2022 calendar](#).
- UK & WORLDWIDE – OIL SPILL RESPONSE LTD. - <https://www.oilspillresponse.com/training/courses/>
- UK & WORLDWIDE – BRIGGS ENVIRONMENTAL SERVICES LTD. - <https://www.briggsmarine.com/services/training/>

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- 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](https://www.ahmpnet.org/events/event_list.asp)

Members who would like to be listed here, please contact your editor – [john.mcmurtrie@spillcontrol.org](mailto:john.mcmurtrie@spillcontrol.org)

### CERTIFICATE IN COMBATTING MARINE & AIR POLLUTION FROM SHIPPING

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

### CERTIFICATE IN MARITIME SAFETY MANAGEMENT & THE ISM CODE

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

### USA: OHMSETT - OIL SPILL RESPONSE STRATEGIES & TACTICS TRAINING

September 20 - 23, 2022 - Tuesday - Thursday: \*8:00 AM - 4:00 PM Friday: 8:00 AM - 1:00 PM; [Register](#)

### FREE ONLINE SPCC TRAINING

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

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**Newly added to the Upcoming Events Page – Cedre: Sea Tech Week 2022 Marine Science & Technology Conference, 26 – 30 September, Brest, France; The Pacific States / British Columbia Task Force 2022 Annual Meeting, Online Nov. 2, 2022**

**Recently added to the Upcoming Events Page – Introduction to the Transport of Hazardous Goods by Road, Online, 26-27 July 2022; Italy – ECOMONDO Green Technology Expo. November 8-11, 2022, Rimini, Italy.**

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**Newly added to this page - The UK's Emerging Green Governance Landscape – Live Broadcast – 20<sup>th</sup> July, 1100 BST; UK's post-Brexit Environmental Governance Webinar 20<sup>th</sup> July 1100 BST**

## MESSAGES FROM EVENT ORGANISERS

### INDIA: OIL SPILL INDIA CONFERENCE & EXHIBITION, 4–5 AUGUST 2022

Taj Palace, New Delhi, India. International Conference & Exhibition on Spill, Salvage, Wreck Removal: Prevention, Preparedness, Response & Restoration systems. Global stakeholder forum for best practices, technologies & experiences on disaster Management & Mitigation. Theme: Commitment, Synergy, Excellence. <http://www.oilspillindia.org/>

### USA: CLEAN PACIFIC – AUGUST 23-24

A full, printable program is now available for this year's CLEAN PACIFIC Conference, taking place August 23-24 at the Hyatt Regency

## MESSAGES FROM EVENT ORGANISERS (CONTINUED)

Lake Washington just outside of Seattle, WA. Check out all that we have planned for CLEAN PACIFIC! Inside the brochure, you will find: Overview of the conference + Schedule of events + All sessions and speakers + Networking events + List of exhibitors and sponsors + Code to access a \$50 registration discount [Download the brochure](#) [Registration](#)

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

<http://spilltech.org/>

### FRANCE: SEA TECH WEEK 2022

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

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

[Preliminary Conference Programme](#) [Registration](#)

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

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

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

Check out this year's program and commit to joining your peers in spill prevention and response this November. [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

### ALGA GROUNDWATER FATE & TRANSPORT SYMPOSIUM

CALL FOR ABSTRACTS IS NOW OPEN! Submission Deadline: 31 July 2022 - ALGA's Groundwater Fate & Transport Special Interest Group (SIG) is pleased to announce the 2022 Groundwater Fate & Transport symposium will be held in Melbourne on 18 November 2022. The symposium aims to share the latest insights, developments and applications for improving our understanding of contaminant behaviour in the environment. <https://www.cvent.com/c/abstracts/e9e34139-c7a0-4969-88b9-e2cfb510baab>

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

The green shift challenges: New oils and new energy carriers. Marine littering. Biological threats [Registration](#)

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

We are delighted to announce that Spillcon 2023 has been confirmed for 11–15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. For more information contact Spillcon Event Team, Nicky Reading, GPO Box 279, Canberra ACT 2601, Australia; Phone +61 417 244 355, Email [spillcon@aip.com.au](mailto:spillcon@aip.com.au)

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

### OTHER OPPORTUNITIES: USA & EUROPE

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

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

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## NEW PUBLICATIONS

### JULY 2022 ISSUE OF THE EMSA NEWSLETTER

In this issue: EMSA takes active role in Europe's leading oil spill conference & exhibition - Interspill 2022; 2022 United Nations Ocean Conference held in Lisbon with special side event at EMSA; First release of EMSA's DONA application now available - offering a dynamic overview of national authorities in their capacities as flag, port and coastal state; Agreement with Med Memorandum of Understanding on Port State Control sees EMSA take on role of information system manager; EMSA publishes Guidance on the carriage of alternative fuel vehicles in Ro-Ro spaces; Improved performance and filtering capabilities for the global maritime traffic picture; EMSA's Integrated Maritime Services confirm their added value for law enforcement; EMSA RPAS offering increased maritime surveillance in operations across Europe. [Download the latest EMSA Newsletter](#)

## INCIDENT REPORTS

### NIGERIA: VANDALS HIT SECOND WELLHEAD AT OML 18, COMPOUND OIL SPILL

July 12 - Barely a month after the first attack on its facility, indigenous Oil & Gas Company Eroton, has bemoaned incessant third-party interference at its facility, raising concerns about a fresh oil spill.

Speaking on behalf of Eroton Exploration and Production company limited, the Head of External Affairs and Corporate Communications Mercy Max-Ebibai confirmed the incident, stating that the spill was observed at about 0745hrs coming from the wing valve arm of the CAWC047L, which appears to have been vandalised with the valves, control panels, bean-box, actuators all carted away.

"The well was observed to be releasing uncontrolled flow of hydrocarbon to the environment from the long string due to the confirmed compromised and vandalised XMAS Tree containment valves of the wellhead," she added.

She further confirmed that despite the high-pressure emission of crude, the Eroton Emergency Response Team has been working around the clock to abate the situation. The company noted that efforts are in progress to rectify all the faulty valves on the Christmas tree, which were found stuck in a closed position. A first response has also been activated for containment and recovery. Guardian NG / [Read more](#)

### RUSSIA: TANKER FIRE, AZOV SEA



*Photo - Courtesy Russian Marine Rescue Service*

**July 12** - Fire erupted in engine room of tanker AHMET TELLI at Temryuk port, Azov sea, Russia, in the evening Jul 9. Circumstances unclear, information given in statement issued by Russian Salvage Agency is so confused that it's almost impossible to find out how it happened, what was tanker's status at the time of fire, and what followed.

**July 13** - Understood tanker was to be dry docked at Temryuk port and at the time fire broke out, was entering ship repair yard basin. Fire disabled the ship, pilot on board anchored tanker in basin, but later, because of threat of explosion, took AHMET TELLI to outer anchorage, with tugs assistance. As of morning Jul 13, remained at anchor. Maritime Bulletin / [Read more](#)

## INCIDENT REPORTS (CONTINUED)

**July 14** - Burning Chemical Tanker Towed Out of Port of Temryuk - State-owned Russian port operator Rosmorport has issued a commendation to a marine pilot who helped navigate a burning chemical tanker out of the Sea of Azov port of Temryuk last week.

According to Rosmorport, pilot Konstantin Dereberya was assigned to bring the Turkish chemical tanker Ahmet Telli into port at Temryuk on July 9. The vessel navigated into the port, but once within the complex, a fire started in the engine room. The blaze disabled the main engine, leaving the vessel adrift and on fire.

The Telli dropped anchor as a precautionary measure, but as the fire grew, it became clear that it would be necessary to move the vessel out of the port. The fire could not be extinguished and raised the possibility of an explosion aboard the vessel. This could potentially spread fire to nearby marine terminals.

Dereberya remained aboard the vessel and helped direct the operation to tow it to the outer anchorage, and for his efforts he has been awarded a commendation. Once the ship was safely outside the port, the fire was extinguished by first responders of Russia's Marine Rescue Service. The Maritime Executive / [Read more](#)

## INDIAN OCEAN: CMA CGM MEGA CONTAINER SHIP CARGO LOSS

**July 14** - Container ship APL VANDA according to numerous reports, suffered loss of containers sometime between Jul 3 and Jul 5 in Arabian sea, while en route from Singapore to Southampton via Suez. The ship had to interrupt voyage and arrived at Djibouti Anchorage on Jul 6, on Jul 15 she moved to port, at 0440 UTC Jul 15 she was in process of berthing, assisted by tugs. There's a monsoon season in Indian ocean now, with more or less regular rough seas, mostly not classified as storm. According to ship's track, container loss if that's what happened, took place somewhere east of Socotra in 400-nm radius zone. Maritime Bulletin / [Read more](#)

**July 14** - CMA CGM Containership Inspected After Losing Boxes in the Indian Ocean - A CMA CGM-operated containership has apparently suffered a container loss while crossing the Indian Ocean although the company is yet to provide details. CMA CGM only acknowledged that the APL Vanda, a 13,892 TEU containership operating between Asia and Northern Europe, had suffered an "unexpected incident" with the vessel remaining in Djibouti for more than a week. Maritime Executive / [Read more](#)

**July 14** - Ultra-Large Containership APL Vanda Loses Boxes Overboard in Indian Ocean - A CMA CGM-operated mega containership apparently lost an undisclosed number of containers overboard while underway in the Indian Ocean off the coast of Djibouti earlier this month. Casualty management firm WK Webster reported Thursday that 17,292 TEU capacity ship lost an unknown number of containers overboard on or about July 3 and it was working to verify the severity of the incident. We now know 55 containers were lost overboard. gCaptain / [Read more](#)

## SOUTH AFRICA: SEAL RESCUE OPERATION AFTER HOUT BAY OIL SPILL

July 14 - Cape Town - Local wildlife organisations sprang into action after receiving a call on Wednesday morning about an oil spill in Hout Bay harbour close to a resident colony of Cape fur seals. The Cape of Good Hope (CoGH) SPCA said they responded to the call with assistance from SANCCOB (Southern African Foundation for the Conservation of Coastal Birds) and Hout Bay Seal Rescue Centre. Formally trained in Oiled Wildlife Response, trainee inspector Bryan Arendse and wildlife officer Jon Friedman gathered up the resources required and headed to the Hout Bay Seal Rescue Centre where the confirmed signs of diesel boat oil were seen. IOL / [Read more](#)

## AUSTRALIA: MELBOURNE TRUCK CRASH SPILLS 40 TONNES OF CHEMICALS ON FREEWAY

July 15 - Residents of some Melbourne suburbs were told to remain in their homes on Friday morning after a truck rollover spilled 40 tonnes of chemical herbicide onto the freeway, prompting a hazardous fumes warnings. The B-double crashed through a barrier on the Melrose Drive ramp off the Western Ring Road and careered down an embankment at Tullamarine at about 2am on Friday. Specialist hazmat fire crews and the Environment Protection Authority expected to spend most of Friday clearing the accident. The Guardian / [Read more](#)

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