



## 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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## INTERNATIONAL & REGIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



## YEMEN: UN CONCLUDES REMOVAL OF ONE MILLION BARRELS OF OIL FROM DECAYING TANKER

August 12 - A UN-led operation to remove over one million barrels of crude oil from a rusting supertanker off Yemen safely concluded on Friday, preventing the immediate threat of a massive spill in the Red Sea.

UN Secretary-General António Guterres welcomed the news of the successful transfer of oil aboard the FSO Safer to a replacement vessel, thus "avoiding what could have been a monumental environmental and humanitarian catastrophe."

Mr. Guterres also thanked the many countries, corporate and philanthropic donors, as well as ordinary citizens, who contributed funding for the project. He urged donors to step up support towards its full conclusion.

The UN Resident and Humanitarian Coordinator for Yemen, David Gressly, who has led UN system-wide efforts on the Safer since September 2021, echoed his message.

"Today is a great milestone," he said. "A remarkable global coalition came together under the UN umbrella to prevent the worst-case scenario of a catastrophic oil spill in the Red Sea. We need to finish the work the UN started." UN / [Read more](#)

## EU PARLIAMENT ADOPTS STRICTER MEASURES TO SAFEGUARD WATER QUALITY AND COMBAT POLLUTION

On June 27, the European Parliament [proposed amendments](#) to legislation aimed at reducing pollution in Europe's water bodies covering inland, transitional and coastal surface waters and groundwater, to better protect human health and natural ecosystems. This is part of the implementation of the [European Commission's Zero Pollution Action Plan](#).

The proposed amendments to [Directive 2000/60/EC \(the Water Framework](#)

[Directive\)](#), [Directive 2006/118/EC \(the Groundwater Directive\)](#) and

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## INTERNATIONAL & REGIONAL NEWS (CONTINUED)

[Directive 2008/105/EC \(the Environmental Quality Standards Directive\)](#) are aimed at enhancing the existing legislative framework in the following ways - A watch list of harmful chemicals must be established and maintained. Threshold values are to be ten-times lower for groundwater than for surface water. Financial Responsibility will be imposed upon polluters.

The new measures fall under the European Green Deal and were originally proposed by the European Commission in October 2022. Once the European Council adopts its position, consultations will begin with Member States to finalize the form of the amended law. Modaq / [Read more](#)

## AS WATER-RELATED DISASTERS MOUNT, EXPERTS PUSH FOR EARLY WARNING SYSTEMS

In mid-2022, a toxic algal bloom began to [quickly spread](#) through the Oder River, which in part straddles the border between Germany and Poland.

The algae, *Prymnesium parvum*, normally lives in the brackish waters near coastlines. But fed by salty run-off from industrial sites, and made more concentrated by low water levels, it enveloped huge stretches of one of Europe's longest waterways. The result was catastrophic.

A recent [European Union report](#) found the crisis could have been averted with better monitoring of the Oder's water. The event, say experts, is a prime example of why countries need to more closely track the health of their rivers, lakes and aquifers, which are facing mounting pressure from not only pollution but also climate change and biodiversity loss.

"By closely monitoring changes in our water bodies, we can better predict cascading risks and tipping points that lead to disasters," says Leticia Carvalho, Head of the United Nations Environment Programme's (UNEP's) Marine and Freshwater Branch. "That will help us more sustainably use our precious water resources and head off catastrophes that could affect tens of millions of people." UNEP / [Read more](#)

## UPDATES TO IPIECA-IOGP MARINE SPILL PREPAREDNESS AND RESPONSE GOOD PRACTICE GUIDES

The Ipieca-IOGP good practice guide series aims to help align industry practices and activities, inform stakeholders, and serve as a communication tool to promote awareness and education on marine spill preparedness and response.

The key elements are - Incident Management System for the oil and gas industry, Oil spill exercises and Oil spill responder health and safety. IPIECA / [Read more and explore the latest IPIECA-IOGP Good Practice Guides](#)

## IOPC FUNDS AND INTERNATIONAL GROUP TO RUN COMPLIMENTARY WORKSHOP AT SPILLCON IN AUSTRALIA

Prior to the opening of Spillcon in Brisbane on 11 September 2023, the IOPC Funds and the International Group of P&I Clubs will run a complimentary workshop for participants to the event. The three-hour course will focus on cost recovery and compensation under the international liability regime for oil pollution damage. It is aimed at providing regulators and responders with background information on how to maximise legitimate cost recovery following a major oil pollution incident. It will follow what happens after a tanker spill and explain how claims are submitted and assessed under the international oil pollution liability and compensation regime. It will also cover other liability regimes and how they differ from the oil liability system.

Case studies and practical examples will be included to help attendees get a better understanding of the claims process.

If you have already booked for [Spillcon 2023](#) you can register for this complimentary workshop [here](#). If you are yet to book to attend the conference, you can add this complimentary workshop to your conference registration [here](#). [IOPC Funds](#)

## NEWS FROM AROUND THE WORLD

### CANADA: CONSTRUCTION BEGINS ON THE FIRST COAST GUARD ARCTIC AND OFFSHORE PATROL SHIP

## NEWS FROM AROUND THE WORLD (CONTINUED)

Today, Mike Kelloway, Parliamentary Secretary to the Minister of Fisheries, Oceans and the Canadian Coast Guard was joined by the Honourable Sean Fraser, Minister of Housing, Infrastructure and Communities to celebrate the steel cutting milestone on the first of the two future Arctic and Offshore Patrol Ships for the Canadian Coast Guard, marking the official start of construction of the vessel undertaken by Irving Shipbuilding Inc. from Halifax, Nova Scotia.

In addition to their primary missions, the Arctic and Offshore Patrol Ships will be able to support environmental response and aids to navigation, allowing greater flexibility and adaptability for the Canadian Coast Guard's operations. Coast Guard / [Read more](#)

### **EGYPT ASSUMES THE PRESIDENCY OF THE 20TH SESSION OF THE MINISTERIAL COUNCIL OF THE REGIONAL COMMISSION FOR THE CONSERVATION OF THE ENVIRONMENT OF THE RED SEA AND GULF OF ADEN**

August 1 - Dr. Yasmine Fouad: Egypt will continue during its presidency of the Council Building on efforts to preserve biodiversity and preserve the marine environment. EEAA / [Read more](#)

### **FINLAND: STRONG WINDS HAVE DISPERSED BLUE-GREEN ALGAE SURFACE BLOOMS IN INLAND WATERS AND AT SEA**

August 10 - The blue-green algae situation in lakes is calm considering the time period. Even in sea areas, blue-green algae have only been detected in subsurface layers in the eastern Gulf of Finland. However, warm and calm weather may further enhance the development of blue-green algae blooms. STTINFO / [Read more](#)

### **INDIA: KARNATAKA COASTLINE, PLASTIC POLLUTION REMEDIATION : STATE MAY GO FOR A WB LOAN OF 840 CRORES**

August 8 - In a bid to tackle the mounting threat of plastic pollution along the Karnataka coast and safeguard the rich biodiversity of the Western Ghats, the Forest, Biology, and Environment Minister, Ishwara B Khandre, has endorsed an expanded version of the Blue Pack project proposed by a team of World Bank experts. The Hans India / [Read more](#)

### **ITALY: SEA TURTLE NESTS, 2023 IS THE RECORD YEAR**

August 2 - There are currently 293 loggerhead sea turtle (*Caretta caretta*) nests found and secured along Italian beaches: it is the all-time record and a number destined to increase in the coming weeks. Volunteers from Legambiente and other organizations, engaged in nest monitoring and surveillance activities as part of the European LIFE Turtlenest project, continue to report day by day traces of mother turtle ascent on Italian beaches.

LIFE Turtlenest is a project co-financed by the European Union through the LIFE program and coordinated by Legambiente, aimed at improving the conservation of the common sea turtle (*Caretta caretta*) in Italy, Spain and France, through monitoring activities, making nests safe, scientific research and information and awareness campaigns.

ISPRA is partner of the project. ISPRA / [Read more](#)

### **LAOS: LAOS SIGNS AGREEMENT TO REDUCE POLLUTION AND STRENGTHEN WATER RESOURCES MANAGEMENT IN NAM THA RIVER BASIN**

August 4 - The Government of Lao People's Democratic Republic signed a memorandum of agreement with Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) to reduce pollution and strengthen water resources management in Nam Tha River Basin. Through the Department of Water Resources (DWR) of the Ministry of Natural Resources and Environment (MoNRE), the agreement covers the five-year implementation of the Integrated River Basin Management (IRBM) Project. PEMSEA / [Read more](#)

### **NEW ZEALAND TO TRIPLE HAURAKI MARITIME PROTECTION AREAS**

August 9 - New Zealand is set to triple the marine protection coverage of the Hauraki Gulf to preserve its fragile ecosystem, the government says.

"The gulf ... is at risk and its ecosystems are under immense pressures, causing concerning declines in marine life and seabird populations," Prime Minister Chris Hipkins said on Wednesday in a statement announcing a bill he will present to parliament in Wellington. Yahoo News / [Read more](#)

### **NIGERIA: OIL SPILLAGE : FG SAYS \$360M RELEASED FOR Ogoni CLEAN-UP**

August 8 - The Federal Government said it had disbursed \$360 million to clean up the polluted Ogoni land in the Niger Delta. Coordinator Hydrocarbon Pollution Remediation Project, Prof Nenibarini Zabbey, disclosed this recently during a four-day tour of the remediated project sites in Ogoni local governments in River State. Plus TV Africa / [Read more](#)





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**27 October 2023**

### **NIGERIA: Ogoni YOUTHS DISSATISFIED WITH IMPLEMENTATION OF UNEP REPORT, TO TAKE ACTION AGAINST HYPREP**

August 8 - Youths of Ogoni ethnic nationality in Rivers State have expressed dissatisfaction with the implementation of the United Nations Environmental Project, UNEP, Report in the area, adding that it falls below expectations. The youths under the aegis of Ogoni Youth Federation, OYF, said they would take action against the project implementation, adding that they are not being involved in the project.

“Regrettably, HYPREP’s approach to the cleanup and restoration projects seems to neglect the importance of actively involving and empowering Ogoni stakeholders. As the vibrant and energetic future of Ogoni, the youth have a vital role to play in the restoration and development of our region. However, we have been largely left out of decision-making processes, despite being primary stakeholders in the efforts to rebuild our land and secure our future. Vanguard / [Read more](#)

### **UK: GUIDANCE ON CARRIAGE OF ELECTRIC VEHICLES ONBOARD PASSENGER ROLL-ON/ROLL-OFF FERRIES**

August 10 - Well done to the MCA who are providing guidance on the carriage of electric vehicles onboard passenger roll-on/roll-off ferries. Their Introduction highlights the issues in giving guidance, however, they have decided that some is better than none, which it is.

We are all navigating the issues that arise with electric vehicles and guidance will have to be updated as users, carriers, and regulators learn more. I know that MCA is aware of this. It is a good start! However, until we are certain that risk can be eliminated do we really need to allow charging whilst at sea? [UK & Ireland Spill Association news release](#)

**August 7 – From UK Maritime & Coastguard Agency - MGN 653 (M) Amendment 1 electric vehicles onboard passenger roll-on/roll-off (ro-ro) ferries**

This Marine Guidance Note provides the UK shipping industry with best practice guidance to facilitate safe carriage, and potential charging of, electric vehicles onboard roll-on roll-off (ro-ro) passenger ferries. The MCA has developed this guidance in conjunction with, and at the request of industry. [Read the MCA Guidance Note](#)

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

August 14 – Please click on the links below to download and read the latest news from NOAA OR&R

#### **Disaster Preparedness Program Announces Four Projects to Support All-Hazards Preparedness for Coastal Communities**

OR&R’s [Disaster Preparedness Program](#) (DPP) is partnering with NOAA Sea Grant for the second time to help coastal communities prepare for, respond to, and recover from disasters, such as hurricanes, flooding, tsunami, earthquake, and climate hazards. On August 8, 2023, DPP announced the four new projects, which total to \$634,936 in FY23 federal funds, will take place in New Jersey, North Carolina, Oregon, and South Carolina.

#### **86,100 Pounds of Marine Debris Removed from the Papahānaumokuākea Marine National Monument**

On August 2, 2023, the team from the Papahānaumokuākea Marine Debris Project, a Hawai‘i-based nonprofit organization, returned to Honolulu, with 86,100 pounds of marine debris removed from shallow coral reefs and shorelines of the islands and atolls within Papahānaumokuākea Marine National Monument. Of the debris removed, 69,330 pounds were derelict fishing nets and 16,770 pounds were plastics and other debris.

#### **OR&R Supports Oil Spill Mapping Training for Coast Guard Uncrewed Aircraft Systems Pilots**

From July 24 - 27, OR&R partnered with the U.S. Coast Guard (USCG) and the [Coastal Response Research Center\(link is external\)](#) to provide on-land and on-water training to USCG’s Uncrewed Aircraft Systems (UAS) pilots to strengthen oil spill response.

#### **Hawai‘i Marine Debris Community Comes Together to Update Action Plan**

On August 2, the NOAA Marine Debris Program coordinated a workshop to discuss updates to the [Hawai‘i Marine Debris Action Plan](#) (Action Plan).

#### **Marine Debris “MAP”-ping in the Classroom: NOAA Shares Updated Resource for Educators**

On July 24, 2023, NOAA Marine Debris Program Education Specialist Alexandria Gillen and Monitoring Coordinator Hillary Burgess led an impactful workshop for marine educators focused on the [Marine Debris Monitoring and Assessment Project](#) (MDMAP) at the [National Marine Educators Association\(link is external\)](#) national conference.

#### **Marine Debris Program Presents at American Apparel & Footwear Association Environmental Committee Meeting**

On July 25, 2023, the NOAA Marine Debris Program attended and presented at a *Making Sense of Microfibers & Microplastics Policy* session at the American Apparel & Footwear Association’s (AAFA) Environmental Committee Meeting, held in Boston, MA



## PEOPLE IN THE NEWS

### FIRST FEMALE PRESIDENT OF INTERMEPA, SEMIRAMIS PALIOS



*Photo courtesy of HELMEPA*

HELMEPA at the helm of the International Marine Environment Protection Association for the Sustainable Development of the Oceans (INTERMEPA), representing the respective national MEPAs worldwide, at a time when the challenges for shipping are increased with the recently revised IMO strategy for reducing greenhouse gases from ships with the aim of achieving zero emissions by 2050. An important milestone is the election of Semiramis Palios as the first female President of the world organization since its establishment in 2006.

Specifically, the Steering Committee, consisting of the Presidents and Directors of CYMEPA (Cyprus), HELMEPA (Greece), NAMEPA (North America), NIMEPA (Nigeria),

PHILMEPA (Philippines), TURMEPA (Turkey), UKRMEPA (Ukraine) and URUMEPA (Uruguay), in the presence of Mr. Niki Papadakis (1<sup>st</sup> President of INTERMEPA in 2006), who spoke about the vision of the founders of the Association and encouraged the further strengthening of synergy between MEPAs, unanimously elected Mrs. Semiramis Paliou (President HELMEPA) and Mr. George Tsavlivris (President CYMEPA) as President and Vice-President of INTERMEPA, respectively, for the next two years. His presence gave a special emotional note to the meeting. HELMEPA / [Read more](#)

## OBITUARY

### REMEMBERING MICHAEL AUGUSTUS CHAMP, PH.D, 1944-2023



A memorial service will be held on 25 August 2023 for Dr. Mike Champ, a world-renowned oceanographer, freshwater biologist, and environmental scientist who passed away on 23 July 2023 at his home near Washington, DC, USA.

ISCO members and other newsletter readers may be acquainted with Dr. Champ as an engaging conference speaker and prolific journal contributor.

His contributions to the advancement of spill science and technology were a natural component of his overall career during which he published six books as well as over 400 papers and articles. The underlying focus is on the toxicity, fate and behavior of contaminants in both aquatic and marine environments, including extensive studies at both polar regions.

He served as a consultant to R&D Division of the US-based Marine Spill Response Corporation; was long-term Editor for Elsevier's *Spill Science and Technology Bulletin* (an international peer reviewed journal); and co-authored the 2002 book "Oil Spill First Principles: Prevention and Best Response."

Since the early 1970's, when he earned a Ph.D from Texas A&M University (TAMU), Mike has served senior scientist and project management roles in the private and public sectors. Several of his most significant contributions to academia, industry, as well as US and international regulations are delineated below.

Dr. Champ's initial post-doctoral fellowship research was funded by the US National Science Foundation to study primary productivity in the Ross Sea in the Antarctic. Subsequently, Mike was selected as Senior Queens Fellow to work on environmental problems in Australia, including those impacting the Great Barrier Reef.

Early in his career, Mike and his growing family relocated to suburban Washington, DC, to accept his first academic appointment at the American University where he became a Full Professor with tenure. He held special off campus full-time appointments within the US government: Department of Defense (DOD); National Oceanic and Atmospheric Administration (NOAA); Environmental Protection Agency (EPA); and National Science Foundation (NSF). In this capacity, Dr. Champ served as a resident scholar to the Army Corp of Engineers and at NOAA.

He was chief scientist for seven research cruises investigating ocean dumping of sulfuric acid iron waste by DuPont and sewage sludge from the city of Philadelphia. The Ocean Dumping Research Program addressed the fate, behavior, chemistry, and environmental effects of ocean-dumped municipal and industrial waste. His testimony to US Congress in the 1970s was instrumental in development of multi-level regulations preventing ocean dumping.

Subsequently, Mike played a major role at the International Maritime Organization (IMO) in developing and shaping the London Ocean Dumping Convention, which placed a global ban on ocean dumping. In the mid-1980's, Dr. Champ conducted research on the fate and behavior on organotin compounds that were used as biocides in marine antifouling paints and published "Organotins:

## OBITUARY (CONTINUED)

Environmental Fate and Behavior". This expertise positioned him to help draft the Organotin Antifouling Paint Control Act of 1988, and the 2001 IMO Convention to "Control Harmful Antifouling Systems on Ships".

He was the senior co-editor of the 1996 major reference work "Organotins: Environmental Fate and Behavior". This book is a summary of over 40 years of research on the use, fate, and behavior of biocide tributyltin (TBT), an additive in marine antifouling paints. In recognition of his expertise, the US Congress asked Mike to help draft and edit the Organotin Antifouling Paint Control Act of 1988.

In 1984, Dr. Michael A. Champ was recognized by US President Ronald Reagan for his contribution to the development of the US Exclusive Economic Zone (EEZ) Proclamation.

In 1990, he and others developed the visionary concept of "Ocean Enterprise" to gain societal benefits from the development, protection and conservation of ocean resources. Proposed projects ranged from floating airports to regional super ports for container ships, to open ocean fish farms. Many of these ideas are currently in demonstration phases worldwide, notably The Blue Revolution Hawaii, a nonprofit NGO for ocean resources development ([www.thebluerevolutionhawaii.org](http://www.thebluerevolutionhawaii.org)).

Later in the 1990s, Mike served as Director of the TAMU Washington, DC Office. He was co-principal investigator in a cadre of US and Russian scientists conducting the US Office of Naval Research funded five-year Research Arctic Nuclear Waste Program. Supported by TAMU's Geochemical and Environmental Research Group, researchers studied the fate and behavior of nuclear wastes dumped in the Russian Arctic

In 2000 and 2001, Dr. Champ was the Technical Advisor to the Marshall Islands Delegation for the IMO Marine Environmental Protection Committee (MEPC) and helped draft the convention to control harmful antifouling systems on ships. The treaty, which entered into force in September 2008, banned TBT use in antifouling paints worldwide.

He held additional teaching and research appointments throughout the years at the University of Alaska Fairbanks, Texas A&M University, University of Hawaii Hilo, University of Maryland, and Virginia Tech.

Most recently Mike was continuing his prior studies on the feasibility of ocean storage for nuclear waste. He held senior scientist roles with organizations such as the Sustainable Water Challenge, working on freshwater management to alleviate the global water shortage. These projects included demonstrating technologies to utilize low saline ground water in agriculture to increase crop production.

In addition to his vast contributions to science and technology, Mike Champ is remembered for his high energy, wit, and intellectual curiosity—always available to network, discuss ideas, and build cross-sector collaboration. He had a gift for synthesizing large amounts of complex information appropriate to both technical and lay audiences. Dr. Michael A. Champ was an active member with Sigma Xi, The Scientific Research Honor Society.

Please visit the Washington Post obituary for Memorial details. [Michael Champ Obituary \(1944 - 2023\) - Falls Church, VA - The Washington Post \(legacy.com\)](#) [Thanks to Helena T. Rowland, Member of ISCO Executive Committee]

## NEWS FROM ISCO MEMBERS – AN ISCO MEMBERSHIP BENEFIT

**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](mailto:John.McMurtrie@spillcontrol.org) Members who would like to place a regular advertisement in the ISCO Newsletter can also benefit from preferential discounted rates. For more info please contact Mike Watson at [mike@mwadigital.com](mailto:mike@mwadigital.com) He will be happy to help you. Editor – No submissions received from ISCO Members this week.**

## 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.**

Fauna and Flora, Fidra, Surfrider Foundation and six other NGOs are calling on the European Commission to take immediate action to combat pellet pollution and reduce microplastic emissions. The organizations state that mandatory legislation must be introduced to successfully reduce microplastic emissions and protect the environment. The organizations have signed a letter addressed to EU Commission President Ursula von der Leyen. More information is available here:

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

<https://rethinkplasticalliance.eu/news/ngos-call-on-eu-to-urgently-address-microplastics-unintentionally-released-into-the-environment/>

Researchers at the Campus Bio Medico University of Rome and the ENEA Casaccia Research Centre in Italy have recently published a study focused on the conversion of marine plastic litter into chemicals and fuels through catalytic pyrolysis using commercial and coal fly ash-synthesized zeolites. More information available here: <https://pubs.acs.org/doi/10.1021/acssuschemeng.2c06130>

Blue chip corporations and startups worldwide are assessing “plastic to fuel initiatives”. The plastic-to-fuel transformation has the potential to bring upwards of 39,000 new jobs and almost USD 9 billion in economic output. This article sets forth advantages and challenges associated with these initiatives: <https://www.plugandplaytechcenter.com/resources/converting-plastic-waste-fuel/>

## 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.

#### 201. The Effect of Surface Oil on Ocean Wind Stress

Blair D., Zheng Y., Bourassa M.A.  
(2023) *Earth (Switzerland)*, 4 (2), pp. 345 - 364,  
DOI: 10.3390/earth4020019

**ABSTRACT:** This study provides, to the best of our knowledge, the first detailed analysis of how surface oil modifies air–sea interactions in a two-way coupled model, i.e., the coupled–ocean–atmosphere–wave–sediment–transport (COAWST) model, modified to account for oil-related changes in air–sea fluxes. This study investigates the effects of oil on surface roughness, surface wind, surface and near-surface temperature differences, and boundary-layer stability and how those conditions ultimately affect surface stress. We first conducted twin-coupled modeling simulations with and without the influence of oil over the Deepwater Horizon (DWH) oil spill period (20 April to 5 May 2010) in the Gulf of Mexico. Then, we compared the results by using a modularized flux model with parameterizations selected to match those selected in the coupled model adapted to either ignore or account for different atmospheric/oceanic processes in calculating surface stress. When non-oil inputs to the bulk formula were treated as being unchanged by oil, the surface stress changes were always negative because of oil-related dampening of the surface roughness alone. However, the oil-related changes to 10 m wind speeds and boundary-layer stability were found to play a dominant role in surface stress changes relative to those due to the oil-related surface roughness changes, highlighting that most of the changes in surface stress were due to oil-related changes in wind speed and boundary-layer stability. Finally, the oil-related changes in surface stress due to the combined oil-related changes in surface roughness, surface wind, and boundary-layer stability were not large enough to have a major impact on the surface current and surface oil transport, indicating that the feedback from the surface oil to the surface oil movement itself is insignificant in forecasting surface oil transport unless the fractional oil coverage is much larger than the value found in this study.

#### 202. Population consequences of the Deepwater Horizon oil spill on pelagic cetaceans

Marques T.A., Thomas L., Booth C.G., Garrison L.P., Rosel P.E., Takeshita R., Mullin K.D., Schwacke L.  
(2023) *Marine Ecology Progress Series*, 714, pp. 1 - 14,  
DOI: 10.3354/meps14323

**ABSTRACT:** The Deepwater Horizon disaster resulted in the release of 490 000 m<sup>3</sup> of oil into the northern Gulf of Mexico. We quantified population consequences for pelagic cetaceans, including sperm whales, beaked whales and 11 species of delphinids. We used existing spatial density models to establish pre-spill population size and distribution, and overlaid an oil footprint to estimate the proportion exposed to oil. This proportion ranged from 0.058 (Atlantic spotted dolphin, 95% CI = 0.041–0.078) to 0.377 (spinner dolphin, 95% CI = 0.217–0.555). We adapted a population dynamics model, developed for an estuarine population of bottlenose dolphins, to each pelagic species by scaling demographic parameters using literature-derived estimates of gestation duration. We used expert elicitation to translate knowledge from dedicated studies of oil effects on bottlenose dolphins to pelagic species and address how density dependence may affect reproduction. We quantified impact by comparing population trajectories under baseline and oil-impacted scenarios. The number of lost cetacean years (difference between trajectories, summed over years)



ranged from 964 (short-finned pilot whale, 95% CI = 385–2291) to 32 584 (oceanic bottlenose dolphin, 95% = CI 13 377– 71 967). Maximum proportional population decrease ranged from 1.3% (Atlantic spotted dolphin 95% CI = 0.5–2.3) to 8.4% (spinner dolphin 95% CI = 3.2–17.7). Estimated time to recover to 95% of baseline was >10 yr for spinner dolphin (12 yr, 95% CI = 0–21) and sperm whale (11 yr, 95% CI = 0–21), while 7 taxonomic units remained within 95% of the baseline population size (time to recover, therefore, as per its definition, was 0). We investigated the sensitivity of results to alternative plausible inputs. Our methods are widely applicable for estimating population effects of stressors in the absence of direct measurements.

### 203. The interference of marine accidental and persistent petroleum hydrocarbons pollution on primary biomass and trace elements sink

Liu F., Huang Q., Du Y., Li S., Cai M., Huang X., Zheng F., Lin L.  
(2023) *Science of the Total Environment*, 883, art. no. 163812,  
DOI: 10.1016/j.scitotenv.2023.163812

**ABSTRACT:** More than 80 % of the primary biomass in marine environments is provided by phytoplankton. The primary mechanism in the trace element sink is the absorption of trace elements by phytoplankton. Because of their difficult degradability and bioaccumulation, petroleum hydrocarbons are one of the most significant and priority organic contaminants in the marine environment. This study chose *Chlorella pyrenoidosa* as the model alga to be exposed to short and medium-term petroleum hydrocarbons. The ecological risk of accidental and persistent petroleum hydrocarbon contamination was thoroughly assessed. The interaction and intergenerational transmission of phytoplankton physiological markers and trace element absorption were explored to reflect the change in primary biomass and trace element sink. *C. pyrenoidosa* could produce a large number of reactive oxygen species stimulated by the concentration and exposure time of pollutants, which activated their antioxidant activity (superoxide dismutase (SOD) activity,  $\beta$ -carotene synthesis, antioxidant trace elements uptake) and peroxides production (hydroxyl radicals and malondialdehyde). The influence of the growth phase on SOD activity, copper absorption, and manganese adsorption in both persistent and accidental pollution was significant ( $p < 0.05$ ,  $F > F_{\alpha}$ ). Adsorption of manganese and selenium positively connected with SOD, malondialdehyde, and Chlorophyll-a ( $p < 0.01$ ). These findings convincingly indicate that petroleum hydrocarbon contamination can interfere with primary biomass and trace element sinks.

### 204. Aliphatic and polycyclic aromatic hydrocarbons in surface sediments as a tool for the assessment of the contamination status of mangrove forests in Rio de Janeiro (Brazil),

Ceccopieri M., Farias C.O., Araújo M., Soares M.L.G., Estrada G.C.D., Wagener A., Hamacher C.  
(2023) *Marine Pollution Bulletin*, 192, art. no. 115049,  
DOI: 10.1016/j.marpolbul.2023.115049

**ABSTRACT:** The distribution of aliphatic and polycyclic aromatic hydrocarbons (PAHs) in surface sediments from mangrove forests of the Rio de Janeiro State was investigated. Ten sampling stations were selected in the mangroves of Sepetiba Bay and the Jacarepaguá Lagoon Complex (JLC), which are areas affected by multiple human activities. The total aliphatic hydrocarbons concentrations showed marked variation between samples (27–407  $\mu\text{g g}^{-1}$ ), mostly related to the total organic carbon contents. The total PAHs concentration ranged between 38 and 792  $\text{ng g}^{-1}$ . Diagnostic indices and statistical analysis showed that the mangrove forests can be divided into three groups: the western portion of Sepetiba Bay with the lowest level of contamination; the inner portion of the bay with the most intense presence of local sources of contamination, especially of pyrolytic character; and the JLC with a greater accumulation of hydrocarbons, mainly derived from petroleum combustion, resultant from the intense urbanization.

### 205. Experimental study on burning behavior of small-scale n-heptane pool fire with brash ice

Yu Y., Chen J., Wang Z., Kong D.  
(2023) *Fuel*, 353, art. no. 129261,  
DOI: 10.1016/j.fuel.2023.129261

**ABSTRACT:** In-situ burning is an effective method for oil spill cleanup in ice-covered areas. Although brash ice is commonly contained in the oil spill, nearly no work has been conducted to explore the influence of brash ice on pool fire burning. Aiming at characterizing the influence of the brash ice content on pool fire, a series of small-scale pool fire experiments were conducted using burners with different sizes (5, 7.5, and 10 cm). The results show that the brash ice significantly affects the ignitability and burning behavior of pool fires. When the brash ice content exceeds the critical value, the pool fire with brash ice is non-ignitable. And during the brash ice melting process, the flame height and mass loss rate decrease with the brash ice content increasing. Based on the theoretical and heat transfer analysis, it was found that the heat transfer between the fuel and ice would decrease the mass loss

rate. Furthermore, the dimensionless mass loss rate could be correlated with the dimensionless size of brash ice and brash ice content. In order to explore the brash ice melting behavior in pool fire burning, a dimensionless correlation was proposed to describe the melting rate. This work provides basic experimental data and understanding of burning behavior for pool fire with brash ice, which can inform more practical in-situ burning applications in ice-covered areas.

## 206. Chemical Weathering Patterns of Diluted Bitumen Spilled into Freshwater Limnocorrals

Stoyanovich S.S., Saunders L.J., Yang Z., Hanson M.L., Hollebone B.P., Orihel D.M., Palace V., Rodriguez-Gil J.L., Mirnaghi F.S., Shah K., Blais J.M.  
(2023) *Environmental Science and Technology*, 57 (25), pp. 9266 - 9276,  
DOI: 10.1021/acs.est.2c05468

**ABSTRACT:** Due to the sudden nature of oil spills, few controlled studies have documented how oil weathers immediately following accidental release into a natural lake environment. Here, we evaluated the weathering patterns of Cold Lake Winter Blend, a diluted bitumen (dilbit) product, by performing a series of controlled spills into limnocorrals installed in a freshwater lake in Northern Ontario, Canada. Using a regression-based design, we added seven different dilbit volumes, ranging from 1.5 to 180 L, resulting in oil-to-water ratios between 1:71,000 (v/v) and 1:500 (v/v). We monitored changes in the composition of various petroleum hydrocarbons (PHCs), including n-alkanes, polycyclic aromatic hydrocarbons (PAHs), and oil biomarkers in dilbit over time, as it naturally weathered for 70 days. Depletion rate constants (kD) of n-alkanes and PAHs ranged from 0.0009 to 0.41 d<sup>-1</sup> and 0.0008 to 0.38 d<sup>-1</sup>, respectively. There was no significant relationship between kD and spill volume, suggesting that spill size did not influence the depletion of petroleum hydrocarbons from the slick. Diagnostic ratios calculated from concentrations of n-alkanes, isoprenoids, and PAHs indicated that evaporation and photooxidation were major processes contributing to dilbit weathering, whereas dissolution and biodegradation were less important. These results demonstrate the usefulness of large scale field studies carried out under realistic environmental conditions to elucidate the role of different weathering processes following a dilbit spill.

## 207. Occurrence, source estimation, and risk assessment of Polycyclic Aromatic Hydrocarbons in coastal seawaters from the Quintero Industrial Complex (Valparaíso, Chile)

Galbán-Malagón C.J., Zapata J., Perez-Venegas D.J., Vargas R., Latorre-Padilla N., Luarte T., Ahrendt C., Hirmas-Olivares A., Gómez-Aburto V., Tapia P., Isamit V., Arce P., Sánchez C., Pozo K.  
(2023) *Science of the Total Environment*, 878, art. no. 162957,  
DOI: 10.1016/j.scitotenv.2023.162957

**ABSTRACT:** In the 1960s, the Quintero industrial complex was inaugurated in Chile. This began a history of dramatic anthropogenic impacts on the Chilean coast. Among the known, we could mention high atmospheric emissions of chemicals due to combustion processes and frequent oil spills. For this reason, we surveyed the concentrations of fifteen EPAPAHs in the surface coastal waters of the Quintero Bay area in 2015. The levels found are in the range of the highest levels when reviewing the literature (0.97 µg L<sup>-1</sup> up to 9.84 µg L<sup>-1</sup>). The highest levels were found in the vicinity of the industrial complex and decreased in the other two zones. The concentration of individual compounds significantly exceeds the levels recommended by the EPA (Environmental Protection Agency) and the EU water framework directive (WFD). The risk estimations revealed that PAH concentrations represent high-risk for wildlife. Molecular ratios of PAHs were used to identify the possible sources, being these were mainly of pyrogenic origin, agreeing with an origin in the combustion of wood, coal, grass, and fossil fuels. This study contributes to the first data for surface water in a country's highly impacted industrial coastal area.

## 208. Modes of Operation and Forcing in Oil Spill Modeling: State-of-Art, Deficiencies and Challenges

Keramea P., Kokkos N., Zodiatis G., Sylaios G.  
(2023) *Journal of Marine Science and Engineering*, 11 (6), art. no. 1165,  
DOI: 10.3390/jmse11061165

**ABSTRACT:** Oil spills may have devastating effects on marine ecosystems, public health, the economy, and coastal communities. As a consequence, scientific literature contains various up-to-date, advanced oil spill predictive models, capable of simulating the trajectory and evolution of an oil slick generated by the accidental release from ships, hydrocarbon production, or other activities. To predict in near real time oil spill transport and fate with increased reliability, these models are usually coupled operationally to synoptic meteorological, hydrodynamic, and wave models. The present study reviews the available different met-ocean forcings that have been used in oil-spill modeling, simulating hypothetical or real oil spill scenarios, worldwide. Seven state-of-the-art oil-spill models are critically examined in terms of the met-ocean data used as forcing inputs in the simulation of twenty-three case studies. The results illustrate that most oil spill models are coupled to different resolution, forecasting meteorological and hydrodynamic

models, posing, however, limited consideration in the forecasted wave field (expressed as the significant wave height, the wave period, and the Stokes drift) that may affect oil transport, especially at the coastal areas. Moreover, the majority of oil spill models lack any linkage to the background biogeochemical conditions; hence, limited consideration is given to processes such as oil biodegradation, photo-oxidation, and sedimentation. Future advancements in oil-spill modeling should be directed towards the full operational coupling with high-resolution atmospheric, hydrodynamic, wave, and biogeochemical models, improving our understanding of the relative impact of each physical and oil weathering process.

### **209. Tarballs on the Brazilian coast in late 2022 sustain *Lepas anatifera* Linnaeus, 1758 (Crustacea: Cirripedia): Occurrence and risk of petroleum hydrocarbon ingestion**

Mello L.C., Nascimento A.P., Lopes B.D., Lima A.D.F., Bezerra L.E.A., Mendes L.D.F., Bastos L.M., Nossol A.B.S., Martins M.M., Martins L.L., Cavalcante R.M.  
(2023) *Science of the Total Environment*, 896, art. no. 164981,  
DOI: 10.1016/j.scitotenv.2023.164981

**ABSTRACT:** Since the 2019 oil spill on the northeastern coast of Brazil, oil materials have washed up on the beaches. A characteristic of the recent oil spill that began in late August was that some of the oiled material, such as tarballs, contained the goose barnacle species *Lepas anatifera* (Cirripedia, Lepadomorpha), which is well-known for its cosmopolitan distribution and wide occurrence in the oceans. The findings of this study provide information on the occurrence and contamination of petroleum hydrocarbons in animals adhered to the surfaces of tarballs sampled from beaches in the Brazilian states of Ceará and Rio Grande do Norte, between September and November 2022. The size of the barnacles varied from 0.122 to 2.20 cm, suggesting that the tarballs had been floating in the ocean for at least a month. All groups of *L. anatifera* collected from the tarballs had polycyclic aromatic hydrocarbons (PAHs) present ( $\Sigma 21$ PAHs from 476.33 to 3816.53 ng g<sup>-1</sup>). In comparison to high-molecular-weight PAHs, which are primarily from pyrolytic sources, low-molecular-weight PAHs, such as naphthalene and phenanthrene, which are mostly related to petrogenic sources, were shown to be more abundant. In addition, dibenzothiophene, which is exclusive of petrogenic origin, was found in all samples (30.74–537.76 ng g<sup>-1</sup>). The aliphatic hydrocarbons (AHs): n-alkanes, pristane, and phytane were also found and displayed petroleum characteristics. These results highlight the danger of increasing the absorption of petrogenic PAHs and AHs by organisms that use tarballs as substrates. *L. anatifera* is a crucial component of the food chain because many animals such as crabs, starfish, and gastropods consume it.

## SCIENCE & TECHNOLOGY (

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### **CHEMISTS DEVELOP SUSTAINABLE METHOD TO REMOVE “FOREVER CHEMICALS” FROM WATER**

Conventionally, PFAS have been removed from water by filtration using special membranes or lower-cost activated carbon adsorbents.

However, recovering the PFAS from these filter systems so that they can be permanently destroyed either requires the use of harsh chemical conditions or incineration.

At least that has been the case up to now. A team of researchers led by Markus Gallei, Professor of Polymer Chemistry at Saarland University, Professor Xiao Su from the University of Illinois Urbana-Champaign, and their doctoral students Frank Hartmann (Saarland) and Paola Baldaguez (Illinois) have developed a new electrochemical method that can remove PFAS chemicals from water and then efficiently release them again for destruction. This new PFAS remediation platform allows these fluorinated contaminants to be collected, identified and then destroyed without needing to incinerate the filter.

In the method developed by the research team, the central role is played by metal-containing polymers known as metallocenes. Metallocenes first came on the scene in 1951 with the discovery of the iron-containing molecule ferrocene. Since then, many other metallocenes have been reported. Frank Hartmann, Markus Gallei, and their international team have found that electrodes functionalized with ferrocene or – even more effectively – with a cobaltocene synthesized by Frank Hartmann, are able to remove even minute quantities of PFAS molecules from water.

But the real key lies in the fact that if a voltage is applied to the ferrocene or cobaltocene metallopolymers, they can ‘switch’ their electrical state and release the PFAS molecules previously captured. ‘And cobalt is significantly better at doing this than iron,’ observed Frank Hartmann. ‘We’ve found a means by which PFAS can be efficiently removed from water and then released again, effectively regenerating the electrode for further use. [Scitechdaily / Read more](#)



## ANNOUNCEMENT



We are pleased to announce that the International Maritime Organization (IMO) and United Nations Environment Programme (UNEP), with support from the Government of Norway, are jointly hosting the third IMO-UNEP-Norway Innovation Forum on Thursday, 28 September 2023.

To learn more about this event click [here](#) to visit the Innovation Forum Website

## 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](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](https://www.ahmpnet.org/events/event_list.asp)
- USA - Elastec Fall Workshop, New Harmony, Indiana, 3-5 October 2023. [More Info](#)

Contaminated Sites Health & Safety Refresher (8-Hour Hazwoper) – From EcoNext – [More info](#)

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

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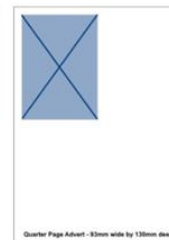
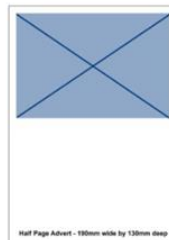
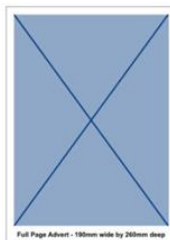
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ISCO's weekly newsletter is focused in international, regional and national news that is of interest to professionals, companies and organisations involved in oil and chemical spill control and the emerging field of CBRN incident response.

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



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## 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](mailto:John.mcmurtrie@spillcontrol.org)

The listings below give only very basic details – To get access to all information visit <https://spillcontrol.org/upcoming-events/>

#### AUGUST 2023

- USA: AHMP - “NPETE US DOT PHMSA HMIT Grant Hazmat Regulations Awareness Training Workshops”, August 15<sup>th</sup>-17<sup>th</sup> 2023, Greenfield, Ohio
- USA – AHMP Annual Conference, Nebraska, 27-30 August 2023

#### SEPTEMBER 2023

- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Oil Chemistry and Fates of Oil in the Sea”, Webinar 20, 5<sup>th</sup> September 2023
- UK – OSRL – “Subsea Well Response Forum” 6<sup>th</sup> September, Aberdeen, Lunch 1215-1300, Workshop 1300-1630
- AUSTRALIA – SPILLCON Conference & Exhibition, Brisbane, 11-15 September 2023
- WEBINAR – OSRL “Understanding the Oil Spill Landscape” 12<sup>th</sup> September, 1400-1500 BST
- AUSTRALIA – SPREP/IMO/ARPEL Workshop, “Developing Oil Spill Preparedness & Response Planning In Pacific Small Islands & other Developing States”, Brisbane, 15<sup>th</sup> – 17<sup>th</sup> September 2023
- WEBIBAR – CEDRE – “Projet CleanAtlantic”, 18<sup>th</sup> September (English language)
- UK – International Conference on Environmental Pollution & Remediation, 19-20 September, NEC Birmingham
- BAHREIN – OSRL – “Middle-East Member Forum” 25<sup>th</sup> September, Bahrain
- WEBINAR from UK & Ireland Spill Association – “Inland Spill Equipment Selection for Spill Responders”, 27<sup>th</sup> September, 1500 to 1630 BST USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023
- WEBINAR from UK & Ireland Spill Association – “Sustainability in Spill Response, Webinar 4”, 20<sup>th</sup> September 2023, 1500 – 1630 BST

#### OCTOBER 2023 & ONWARDS

- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Environmental Effects of Oil in the Sea “, Webinar 21, 3<sup>rd</sup> October, 2023
- MALAYSIA – OSRL – “Subsea Forum in Malaysia”, 4th October, KL
- WEBINAR – OSRL – “Risk Assessment and Contingency Planning” 10<sup>th</sup> October, 1400-1500 BST
- CANADA – Remediation Technologies Symposium (REMTECH) 2023, Fairmont Banff Springs, 11-13 October 2023
- THAILAND – Economist – “Global Plastics Summit”, Bangkok, 11-12 October 2023
- WEBINAR from UK & Ireland Spill Association – “Implications of the lessons learned from the Wakashio Incident”, 18<sup>th</sup> October 2023, 1500-1630 BST
- UK – ITAC Annual Meeting, 24<sup>th</sup>-26<sup>th</sup> October, National Oceanography Centre, Southampton
- BRAZIL – International Seminar – ISCO & Ocean Pact Brazil “ Lessons Learned for Brazil & Latin America, Preparedness, Response & Crisis Management, Case Studies”, Rio de Janeiro, 27<sup>th</sup> October 2023
- UK – UK & Ireland Spill Association Conference – Annual Conference, Dinner & Awards, 1-2 November, Nottingham
- ITALY – ECOMONDO Exhibition & Conference, Rimini, 7-12 November 2023
- UK – IOPC Funds – November 2023 Meeting of the Governing Bodies, 7<sup>th</sup> to 10<sup>th</sup> November. IMO HQ London
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Human Health Effects of Oil in the Sea”, Webinar 22, 7<sup>th</sup> November 2023
- USA – Clean Gulf Conference & Exhibition, “Prepare, Respond and Recover”, San Antonio, TX, 7-9 November 2023
- INDIA – SPILLTECH Conference & Exhibition, 8<sup>th</sup> to 9<sup>th</sup> November 2023, New Delhi
- WEBINAR – OSRL – “Equipment and Resources for Effective Response”, 14<sup>th</sup> November, 1400-1500 GMT
- WEBINAR from UK & Ireland Spill Association – “Early lessons to be learned from the Poole Harbour incident”, 15<sup>th</sup> November 2023, 1500-1630 GMT

## UPCOMING EVENTS (CONTINUED)

- **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**
- **WEBINAR – OSRL – “Training, Exercises and Continuous Improvement” 12<sup>th</sup> December, 1400-1500 GMT**

**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](#).**

## MESSAGES FROM EVENT ORGANISERS

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

We are excited by the number of exhibitors confirmed for Spillcon 2023. We are showcasing a truly international event with exhibitors not only from Australia but also from South Korea and Europe (Denmark, France, Norway and the UK). Full details of all confirmed exhibitors can be viewed [here](#).

As in previous years, the exhibition area will also host catering - morning and afternoon teas plus lunches. In addition, on the evening of Monday 11th September, the formal Welcome Reception will include the Exhibition Opening and provide the initial opportunity for all delegates to view the booths. Should you wish to become an exhibitor yourself, booths can be booked through the following link - [Spillcon 2023 Exhibition Booking Site](#) - where you will also find an interactive floor plan. <https://www.spillcon.com/> <https://mailchi.mp/64c839ee8f69/spillcon-2023-delegate-bookings-open?e=ce373d43ca>

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](#).

Spillcon 2023 is delighted to invite attendees to a **complimentary workshop** on the afternoon of Monday 11th September.

Title: Cost recovery and compensation under the international liability regime for oil pollution damage

Length: 3 hours (incl. break) Level: No previous knowledge required. Instructors: IOPC Funds & IG P&I [More info](#)

Spillcon 2023 are delighted to invite attendees to join us on a **trip to Moreton Island**. Date: Friday 15th September 2023 Time: Approximately 9am to 9pm (departing from/returning to Rydges Southbank) Cost: \$150 Inclusions: Bus transfers; ferries; lunch and snacks Additional: Attendees to purchase their own dinner on the island if desired

Moreton Island is the third largest sand Island in the world sitting just 40km NE of Brisbane and is considered one of the least disturbed coastal environments along the Queensland/New South Wales coast. In March of 2009 it was impacted by Heavy Fuel Oil lost from the cargo ship Pacific Adventurer while on route from Newcastle to Brisbane. The ensuing cleanup required 400 personnel working on the island each day at the height of the response operations. Join us for an excursion to Moreton Island to learn about the natural and cultural heritage values of the island from Parks and Wildlife personnel and to discuss the challenges and successful oil spill cleanup effort mounted following the Pacific Adventurer incident. [More info](#)

### 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!](#) [More info](#) Time to Lock in Your Participation at CLEAN GULF 2023 The 2023 CLEAN GULF Conference & Exhibition is still 4 months away but only 25 exhibit spaces remain! Book your space today and secure access to 1,500+ potential buyers from oil & gas, maritime, rail, environmental companies, and regulatory agencies. These buyers will be walking the exhibit hall, actively looking for new technologies, equipment, and services to help them better prepare, respond, or recover from, an environmental emergency. [View Floor Plan](#) [See who's already exhibiting](#)



## MESSAGES FROM EVENT ORGANISERS (CONTINUED)

### INDIA: SPILLTECH – “PROTECTION AND RESTORATION OF OCEAN HEALTH” NEW DELHI, 8-9 NOVEMBER 2023

The SPILLTECH Conference provides a vital forum for professionals from the international response companies, private sector, government & non- governmental organizations and academia to come together to come-out with an effective and efficient methodologies to tackle the spill challenges faced by Industries. The practical knowledge sharing, discussions on new innovation in this field and latest technological development will help to safely & effectively handle these spill situations to save marine life and save the environment. [Download the Event Brochure](#)

### USA: SAVE THE DATE FOR IOSC 2024

We're excited to be back in person for the [International Oil Spill Conference \(IOSC\)](#) in **New Orleans, May 13-16, 2024**

#IOSC2024 provides a vital forum for professionals from the international response community, private sector, government, and non-governmental organizations to come together to tackle the greatest challenges facing us with sound science, practical innovation, social engineering and imagination.

Mark your calendars and start planning your trip to join over 1,500 attendees from over 50 countries, representing government agencies, contractors, researchers, industry, and other stakeholders as they exchange ideas and lessons learned from actual spill responses and research around the world. Stay tuned, registration details will be announced in August. We look forward to seeing you in New Orleans next year

**Learn More about IOSC 2024** Be sure to follow IOSC on [Facebook](#), [Twitter](#), and [LinkedIn](#) for updates and announcements about #IOSC2024. Please contact [registration@iosc.org](mailto:registration@iosc.org) for questions or additional information. Interested in exhibiting or sponsorship? Please reach out to: [exhibits@iosc.org](mailto:exhibits@iosc.org)

### USA: CLEAN WATERWAYS 2024 – CALL FOR PRESENTATIONS

April 9-11, 2024, Cincinnati, OH – “Incident Prevention & Response for Inland Regions & Waterways” [View the website](#)

## 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>

## JOB VACANCIES

### OILED WILDLIFE PROGRAMS STAFF POSITION

Tri-State Bird Rescue & Research, Inc., is seeking a manager for our Oiled Wildlife Programs department to oversee and coordinate the projects and resources of the department in conjunction with the mission of the organization. For more information please visit - <https://spillcontrol.org/job-vacancies/>

## LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

### TO VIEW LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS PLEASE CLICK ON

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

As a service to its Members ISCO provides a listing of publications that may be of interest to our community. This page provides details and links for downloading more than 40 publications most of which can be accessed at no cost. This page is managed by Mike Watson [mike@mwadigital.com](mailto:mike@mwadigital.com)

### 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/>

### AUSTRALIA: AUTHORITIES INVESTIGATE SPILL THAT LEFT BIRDS COVERED IN OIL SOUTH OF PERTH

June 28 – A follow-up to an earlier report contains some more information. ABC News / [Read more](#) [Thanks to John Wardrop]

### THAILAND: OIL SLICKS THREATENS PHUKET BEACHES, AUTHORITIES SEEK CULPRITS

August 6 - In the Thalang district of Phuket island, the beautiful scenery was marred by the unexpected appearance of oil slicks and tar balls along four beaches. These are being carefully removed from the coastline of the Sirinat National Park by a mix of residents and authorities. The cleanup started on Friday after an alert was raised by the Layan Beach station chief. Thaiger / [Read more](#)

August 9 - Phuket oil spill threatens ecosystem, 4 sea turtles found dead already. The Phuket oil spill is projected to have begun off the coast of the neighbouring Phang Nga province last week, later making its way to Koh Racha Yai, Phuket by the weekend. Approximately two tonnes of oil were collected from the sandy beaches of Sirinat National Park, while the remaining one tonne came from Koh Racha Yai. The Thaiger / [Read more](#)

### USA: TEXAS - HAZMAT TEAM CONTAINS CHEMICAL SPILL FROM I-20 CRASH INTO GREGG COUNTY CREEK

August 9 - A hazmat team has contained a chemical spill into Little Caney Creek from a crashed 18-wheeler on I-20 in Gregg County. The crash happened Tuesday afternoon on the eastbound lane of the highway, reducing traffic to a single lane for hours. The driver told DPS that he had a tire blow out around Mile Marker 581, and the truck struck a guardrail and caught fire. The driver was able to escape without injury. According to Gregg County Sheriff's Office Capt. Craig Harrington, Little Caney Creek was possibly being affected by chemicals from the vehicle. As of Wednesday morning, hazmat crews said the spill had been contained. "Today we have crews on site, removing any of the fuel, hydraulic fluid that was left behind from the truck. We've got it contained. We've got a vacuum-truck that's skimming the surface, it's removing the surface contamination. KITV / [Read more](#)

### UKRAINE: ZAPORIZHZHYA NUCLEAR PLANT INITIATES REACTOR SHUTDOWN FOLLOWING WATER LEAK, REPORTS IAEA

August 10 - The Zaporizhzhya Nuclear Power Plant in Ukraine has begun transitioning one of its reactor units from a hot shutdown to a cold shutdown after a water leak was detected in one of its steam generators, the International Atomic Energy Agency (IAEA) said on Thursday. The purpose of placing reactor unit 4 in cold shutdown is to investigate the exact cause of the leak and carry out necessary maintenance to repair the affected steam generator, according to a statement by Rafael Mariano Grossi, IAEA Director General. There was no radiological release to the environment, the statement noted, adding that over the next three days, the nuclear power plant will move unit 6 to hot shutdown to continue steam production. UN / [Read more](#)

### USA: CALIFORNIA - HORRIFIC WILDLIFE SCENE AT LA BREA TAR PITS: 15 CANADA GEESE LAND IN HOT OILY MESS

August 11 - A group of Canada Geese, who mistakenly landed in the sticky goo at La Brea Tar Pits, suffered serious injury and painful death on July 31. The few who were able to survive are now in care at International Bird Rescue. Out of a flock of 15 geese, seven birds with heavy oiling and burns were recovered from the scene and brought to Bird Rescue's Los Angeles Wildlife Center for urgent care. On arrival, the birds were listless and unable to stand. Bird Rescue / [Read more](#) [Thanks to John Wardrop, Hon.FISCO]

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