



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

ISCO EXECUTIVE COMMITTEE

President, Secretary General & Vice-Presidents

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

Other Executive Committee Members

- Mr Kerem Kemerli (Turkiye)
- Mr Marc Shaye (USA)
- Mr Dan Sheehan (USA)
- Captain Bill Boyle (UK)
- Lord Rickaby (UK)
- Mr Matthew Sommerville (UK)

COUNCIL (National Representatives)

- Mr John Wardrop (Australia)
- Mr Elkhan Mamedov (Azerbaijan)
- Dr Merv Fingas (Canada)
- Captain D. C. Sekhar (India)
- Major Ben Benny (Israel)
- Mr Sanjay Gandhi (Kenya)
- Mr Dennis van der Veen (Netherlands)
- Mr Carlos Sagrera (Panama)
- Mrs Fatima B. Shaik (South Africa)
- Dr Ali Saeed Al Ameri (UAE)
- Dr Timothy Gunter (USA)
- Mr Flavio P. de Andrade (Brazil)
- Mr Kerem Kemerli (Turkiye)

SECRETARIAT (Core Management Team)

- 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)



**A HAPPY NEW YEAR
TO ALL OUR READERS**



HEADLINE INTERNATIONAL NEWS

AT THE START OF THE NEW YEAR

HOPE FOR PRESERVING OUR BIODIVERSITY

“After multiple delays due to COVID-19, nearly 200 countries at the UN Biodiversity Conference (COP15) in Montreal sealed a landmark deal to halt and reverse biodiversity loss by 2030”

In an article in Mongabay, Latoya Abulu, Sahana Ghosh write “After marathon negotiations and a clutch of protests (including a “die-in” by global youth, and a walk-out by developing countries over a funding stalemate) nearly 200 nations struck a historic deal to halt and reverse biodiversity loss by the end of the decade, at the [UN Biodiversity Conference](#) (COP15) in Montreal, Canada”.



Photo courtesy of Ocean Image Bank.

“The Kunming-Montreal Global Biodiversity Framework (GBF), with four goals and 23 action-oriented targets, was adopted early Monday morning at the Fifteenth meeting of the Conference of Parties on the Convention of Biological Diversity (CBD) or COP15, chaired by China and hosted by Canada from December 7 to December 19”.

The agreement preserves the headline goal to “ensure and enable that by 2030 at

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

MEMBERSHIP OF ISCO

[Benefits of Membership](#)

[Online Membership Application Form](#)

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



Click on the link below –

<https://www.linkedin.com/groups/4016064/>



ISCO'S FACEBOOK GROUP

Click on the

link –

<https://www.facebook.com/groups/388528312842431>

WHATSAPP GROUP FOR STUDENTS, TRAINEES & APPRENTICES

Here is the link for joining this group –

<https://chat.whatsapp.com/KMxdW71Eal79namyNlbVqq>

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)

[About Professional Membership](#)

[Professional Membership Application Form](#)

HEADLINE INTERNATIONAL NEWS (CONTINUED)

least 30 percent of terrestrial, inland water, and coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem functions and services, are effectively conserved and managed," while recognizing "indigenous and traditional territories, where applicable."

This article gives an excellent summary of the Montreal meeting, not only what was achieved, but also the gaps - [Continue reading this article in Mangabay](#)

A press release from UNEP covers key points, a "wrap-up" video and a key speech by (UNEP) Executive Director, Inger Andersen.

"The United Nations Biodiversity Conference (COP15) ended in Montreal, Canada, on 19 December 2022 with a [landmark agreement](#) to guide global action on nature through to 2030. Representatives from 188 governments have been gathered in Montreal for the past two weeks for the important summit.

Chaired by China and hosted by Canada, COP 15 resulted in the adoption of the Kunming-Montreal Global Biodiversity Framework (GBF) on the last day of negotiations.

The GBF aims to address biodiversity loss, restore ecosystems and protect indigenous rights. The plan includes concrete measures to halt and reverse nature loss, including putting 30 per cent of the planet and 30 per cent of degraded ecosystems under protection by 2030. It also contains proposals to increase finance to developing countries – a major sticking point during talks.

The stakes could not be higher: the planet is experiencing a dangerous decline in nature as a result of human activity. It is experiencing its [largest loss of life since the dinosaurs](#). One million plant and animal species are now threatened with extinction, many within decades". UNEP / [Read more](#)

ISCO NEWS

NEW DATE FOR POSTPONED ISCO 2022 AGM

The new planned time and date is 8 pm GMT on Thursday 9th February 2023. The Agenda and Meeting Papers will be circulated to members by email in the near future and the link for joining the meeting will be advised nearer to the actual date.

INTERNATIONAL & REGIONAL NEWS

STATEMENT FROM THE GEF CEO AND CHAIRPERSON ON THE CREATION OF THE GLOBAL BIODIVERSITY FRAMEWORK FUND

December 19 - Carlos Manuel Rodriguez, GEF CEO and Chairperson:

The agreement reached today in Montreal is a significant breakthrough for biodiversity. It reflects never-before-seen recognition from countries at all income levels that biodiversity loss must be stopped through high-ambition changes to our society's relationship with nature and the way our global economy operates. It also reflects a determination from political leaders around the world to make this happen.

This is an extremely positive moment for the international community and for the diplomatic process at the Convention on Biological Diversity that I have personally been involved with for nearly 30 years, as a CSO representative, a negotiator for Costa Rica, and most recently as the CEO of the Global Environment Facility.

Resource mobilization has been a central theme here in Montreal over the last two weeks, both to reach an ambitious agreement, and also to ensure it is implemented.

As the Financial Mechanism of this critical Convention, the GEF takes very seriously our responsibility to function under the authority and guidance of the COP, and to be accountable to the COP.

FASTANK - The World's Leading Portable Containment Tanks

Environmental Solutions
Prevent Pollution
with **FASTANK Bund!**

Various sizes available

www.fastank.com
info@fastank.com

VARICHEM GROUP HOLDING

Varichem de Colombia has a presence in Paraguay, Bolivia and Peru with all our Services & Products.

- Varichem del Cono Sur
- Varichem de Colombia Branch Bolivia
- Varichem de Colombia Branch Perú
- Varichem Offshore Services Free Trade Zone user in the Caribbean Zona Franca Las Americas

Click here to contact us for more information

25 ANOS

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

I am therefore honored and extremely pleased that the Conference of the Parties has requested the GEF to establish the Global Biodiversity Framework Fund as soon as possible, to complement existing support and scale up financing to ensure the timely implementation of the post-2020 global biodiversity framework.

The decision also includes a number of important elements on access, adequacy, predictability, equitable governance, and financing from all sources.

GEF / [Read more](#)

PACIFIC OCEAN'S PLASTICS CLEAN-UP HINDERED BY TRADE BARRIERS

December 17 The cleanup of the world's oceans is being hindered by visa requirements, tariffs on equipment, and restricted access to local ports and waste management facilities, according to the Asia-Pacific Economic Cooperation.

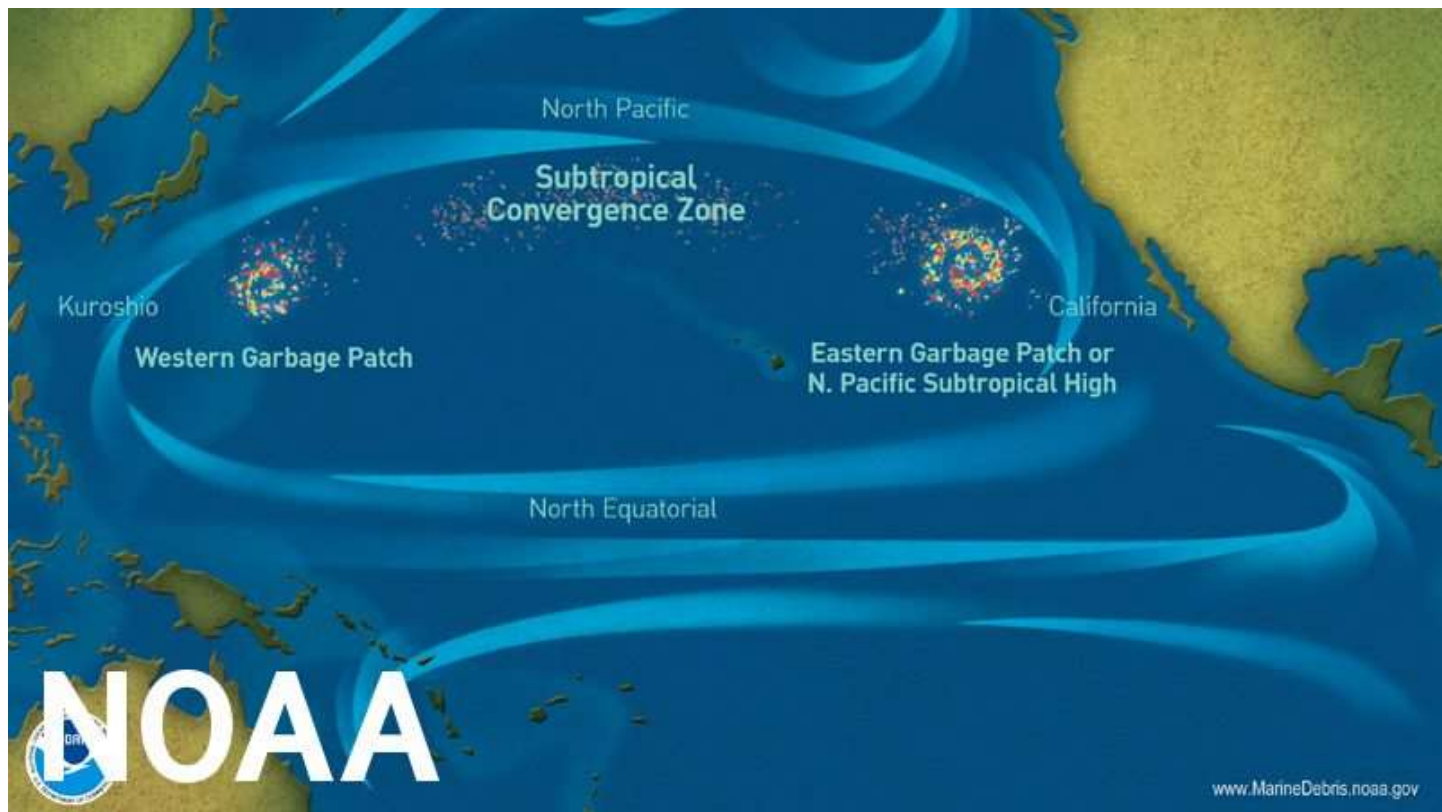
While the decades-long clean up of beaches remains the most advanced of all efforts, plastic collection from rivers which feed garbage into coastal waters and the open ocean lag behind, the 21-nation group focused on open trade and investment said in its latest bulletin.

This has led the convergence of floating debris in three major "gyres" in the Pacific, where winds and currents pulverize microplastics into a [peppery soup](#) which eventually sink to the sea floor. gCaptain / [Read more](#)



YOU CAN PLACE AN ADVERTISEMENT HERE

For information contact
Mike Watson at
spillcontrol@mwadigital.com



Above: Marine debris accumulation locations in the North Pacific Ocean. (NOAA Marine Debris Program)

EUROPE: NEW RULES ON PERSISTENT ORGANIC POLLUTANTS (POPS) IN WASTE TO ENTER INTO FORCE

December 22 - On 29 December, the new [Regulation on Persistent Organic Pollutants \(POPs\)](#) will enter into force, providing a legally binding obligation to **protect human health and the environment** from some of the **most harmful chemicals in waste**. Although POPs are generally no longer used in new products, they are still found in waste resulting from disposal of some industrial and consumer products after the end of their service life.

The new Regulation introduces, for the first time, **limits for some of these chemicals in waste and tightens them for others which were already regulated**. Existing limits have been tightened for five substances and new limits have been agreed for four new substances that can be found for example in waterproof textiles and fire-fighting foams, in treated wood and others. Limiting the presence of these chemicals in waste will **prevent them from re-entering the economy**. European Commission / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

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

BRAZIL: IBAMA PUBLISHES NATIONAL ANNUAL PLAN FOR ENVIRONMENTAL PROTECTION (PNAPA) FOR THE YEAR 2023

December 27 - The Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA) reports that the National Annual Plan for Environmental Protection (PNAPA) for the year 2023 was published in the Official Gazette of the Union (DOU) of December 26, 2022.

The PNAPA lists environmental surveillance and forest fire prevention and combat actions, risk management actions and preparedness for environmental emergencies, and actions to strengthen surveillance and air operations - with hiring, equipment acquisition, courses and training - for next year. IBAMA / [Read more](#)

CANADA: MINISTER OF TRANSPORT CLEARS SANTA AND REINDEER FOR TAKE-OFF IN CANADIAN AIRSPACE

December 23 - The Minister of Transport, the Honourable Omar Alghabra, is pleased to announce that he has cleared Santa and his reindeer flight crew for take-off in Canadian airspace.

In a secure message to Minister Alghabra earlier this week, Santa confirmed that he completed his final test flight of the year and checked that he and the reindeer showed no signs of COVID-19 symptoms before take-off. Transport Canada / [Read more](#)

CHINA MULLS REVISING LAW ON MARINE ENVIRONMENT PROTECTION

December 29 - Chinese lawmakers are considering a draft revision to the Marine Environment Protection Law to keep improving the country's marine environment.

The revision was submitted Tuesday to the ongoing session of the Standing Committee of the National People's Congress (NPC), the top legislature, for a first reading. Hellenic Shipping News / [Read more](#)

FINLAND: WWF FINLAND RUNS FIRST EUROWA BASIC RESPONDER COURSE

December 21 - In October, WWF Finland organised its first ever EUROWA BASIC Responder course. WWF Finland has been providing oiled wildlife response training for their oil spill response volunteers for many years, but the training format has thus far been slightly different from the EUROWA standard training courses. From now on, all oiled wildlife response training offered by the organisation will conform with EUROWA standards.

The BASIC training event was organised by network member [WWF Finland](#) in cooperation with, and at the facilities of [Korkeasaari Zoo](#), and under the guidance of two local trainers. EUROWA / [Read more](#)

FRANCE: LE RÉSEAU DES CENTRES DE SOINS DE LA FAUNE SAUVAGE DE FRANCE JOINS THE EUROWA NETWORK.

December 22 - '[Le Réseau](#)' is a key organisation for oiled wildlife preparedness in France as it acts as a link between care wildlife hospitals and authorities and health monitoring institutions. Joining EUROWA will allow their centres' staff and volunteers to bring their technical expertise into the network, to follow EUROWA training and be part of a wider pool of trained responders following EUROWA Standards that can offer help to other European wildlife hospitals in case of a complex wildlife emergency. EUROWA / [Read more](#)

GERMANY: NEW SPECIALIST PRE-WASH OILED WILDLIFE RESPONDER COURSE HELD



Photo courtesy of EUROWA

December 22 - SPECIALIST oiled wildlife responders are critical in an oiled wildlife response as the lives of animals and the success of the response, heavily depends on them. EUROWA approaches the SPECIALIST oiled wildlife responder qualification using the "lifelong learning" concept. You do not become a SPECIALIST only by attending a course of a few days. Instead, the EUROWA Specialist courses offer a range of training modules where a person can deepen their Knowledge, Skills and Abilities over the years.

In October this year, the first ever Specialist pre-wash oiled wildlife responder training was completed in two parts. The first was an online event to fulfil the pre-wash 'Knowledge' module, where participants were tasked with reviewing literature relating to care of animals in a rehabilitation centre. EUROWA / [Read more](#)

IRELAND: NEW BATCH OF EUROWA ADVANCED RESPONDERS QUALIFY IN IRELAND

December 22 - In November, several EUROWA BASIC responders upgraded their qualifications to ADVANCED Responders by completing the advanced EUROWA course in Ireland. During an oil spill, certified ADVANCED responders will make up a crucial part of the workforce in animal rehabilitation, and it is therefore important that there are trained advanced responders in each European country. EUROWA / [Read more](#)

NETHERLANDS: EXPERTS GATHER IN TEXEL TO DISCUSS SEABIRD RISK AND IMPACT ASSESSMENT



Photo courtesy of EUROWA

December 21 - In September of this year, a range of experts met for a two-day workshop in Texel, Netherlands to discuss Risk and Impact Assessment methods for marine wildlife emergencies. Seabird population experts from scientific institutions, regional authorities and veterinarians were invited to gain insight into how to evaluate population impacts during mass marine wildlife stranding events. The course was designed to provide guidance on what kind of data is needed, how that information should be gathered, analysed and communicated to decision makers in emergency response systems. It focused on the development of skills that are needed to carry out a risk assessment in a safe way, and to prepare, structure, manage and report on a population impact assessment. EUROWA / [Read more](#)

PERU: NEWS ON ACTIONS IN PERU IN RELATION TO THE OIL SPILL OF JANUARY 2022

From Carlos Sagrera, ISCO Representative in Latin America Spanish Speaking -

"This note on the situation in Peru in relation to the January 2022 spill puts the current situation into perspective, which is very interesting for the entire spill control community, because it is the largest current legal dispute due to its amount and importance and explains various contingencies on the subject to readers and especially to Spanish-speaking readers".



Above : Participants at Seminar on Crisis Management and Lessons Learned – Photo from Carlos Sagrera

Report of the Ombudsman; creation of an Interministerial Commission to guarantee the collection of compensation by the State and Seminar on Crisis Management and Lessons Learned Level II and III Spill Incidents in Latin America"

Almost eleven months after the spill incident (January 2022) and due to its consequences on the coasts of Peru, the investigations of the authorities continue at present about the incident that involved the Mare Doricum Tanker and the main Refinery of that country (La Pampilla belonging to REPSOL) located in the port of El Callao to the North of Lima. Within this framework, reports have been published by institutions of the Government of Peru such as the Ombudsman's Office, which reveals various shortcomings of the main institutions of the country involved in the prevention and response in this type of emergency and recommends various immediate actions including updating the National Contingency Plan (<https://www.defensoria.gob.pe/wp-content/uploads/2022/05/Informe-Derrame-Ventanilla.pdf>). In the same way, the Government of Peru determined "...the creation of a new Multisectoral Commission of a temporary nature, dependent on the Presidency of the Council of Ministers, in charge of monitoring the actions adopted or to be adopted against the environmental damages caused by the Repsol oil spill on the coasts of the marine littoral, to guarantee adequate reparation and compensation to the State"

(<https://busquedas.elperuano.pe/normaslegales/crean-comision-multisectorial-de-naturaleza-temporal-depend-resolucion-suprema-n-220-2022-pcm-2102467-2/>). For its part, OEFA (Environmental Evaluation and Control Agency) understands that there are still 71 contaminated sites on the Peruvian coast, of which about 50 of them are beaches, which requires REPSOL to continue with its specialized teams in treatment of marine coasts, reiterating "... that the company's commitment is to return the coastline to its original state", and collaborates with the authorities so that, in the shortest possible time, "activities in the area return" (https://www.swissinfo.ch/spa/per%C3%BA-derrame_autoridad-peruana-afirma-que-hay-69-sitios-contaminados-por-derrame-de-repsol/47907762).

In the same framework and as a consequence of the regulatory and operational gaps detected in this incident, the private maritime and oil industrial sector of Peru has participated in a Seminar on Thursday, December 1, 2022 on "Crisis Management and Lessons Learned Level Spill Incidents Tier II and III in Latin America", organized by LAMOR Peru (Diego Etcheverri - General Manager). It had an initial part in the morning for the LAMOR Peru Staff with conferences on Introduction to the control of oil spills in the XXI Century in Latin America; Activation of OSROs in Latin America: Equipment, Materials and Human Resources; Regional Case Studies: Responses to Tier II and III Spills in Central America and Leadership in Oil Spill Crisis Management. In the afternoon and with the assistance of 40 managerial representatives of the Peruvian maritime and oil sector, presentations were developed on the "Case of the La Pampilla Refinery & Mare Doricum Tanker - Incident and Media - Organization - NCP - Role of the Actors - Unified Command and Common Operating Picture - Response Stages - Strategies and Operational Response - Surveillance and Monitoring - Containment and Recovery - Treatment of Marine Coasts - Completion Criteria". The Seminar was in charge of Carlos Sagrera and in his capacity as Representative for Latin America of ISCO.

SINGAPORE: THE INTERNATIONAL GROUP'S EDUCATION COMMITTEE THANK THE MPA FOR SUPPORTING THE GROUP'S P&I QUALIFICATION WITH FUNDING FOR SINGAPORE CITIZENS AND PERMANENT RESIDENTS

December - The International Group (IG)'s Protection and Indemnity (P&I) Qualification course was approved in Sep 2022 for funding under the Maritime Cluster Fund (MCF) for Singapore Citizens or Singapore Permanent Residents. Under the MCF training grant administered by the Maritime and Port Authority of Singapore, 70% of the qualifying participants' course fees will be covered by the MCF.

Alex McCooke, Chair of the IG Education Committee, commented: "I am delighted the MPA supports the upskilling of marine insurance professionals through co-funding local personnel in their pursuit of the P&I Qualification, which grows from strength to strength each year. In the last 12 months, we estimate that around 30 Singaporean candidates participated in the qualification. We are looking forward to receiving many more applications from Singapore Citizens or Singapore Permanent Residents. Our exams are aimed at helping to improve and raise standards in the shipping industry going forward." IG P&I / [Read more](#)

SPAIN: RESPONDER PROJECT COMES TO AN END: 138 PEOPLE COMPLETE EUROWA TRAINING COURSES IN SPAIN

December 17 - After one and a half years of work, the Spanish project "RESPONDER: a training program for response to oiled marine fauna on the Spanish coasts" comes to an end. The main objective of project RESPONDER was to improve the response capacity along the Spanish coasts in case of oil spills with affected marine animals, with successful results: EUROWA's Basic and Advanced Oiled Wildlife Responder manuals have been translated into Spanish; 138 people from the regional governments of Asturias and Catalonia have been trained to Basic level, 43 to Advanced Field and 16 to Advanced Oiled Wildlife Responder. EUROWA / [Read more](#)

USA: OFFICE OF RESPONSE AND RESTORATION WEEKLY ROUND-UP OF NEWS AND INFORMATION

December 19 – Please click on the links below to download and read the latest news reports from NOAA OR&R

NOAA Awards \$1.6M in Grants to Remove Marine Debris From Hurricane-Impacted Communities

On Dec. 13, following a competitive review process, the NOAA Marine Debris Program and [National Fish and Wildlife Foundation](#)([link is external](#)) announced the five recipients of the [2022 Hurricane Response Marine Debris Removal Fund](#).

Pollution Response in the Wake of Hurricane Ian

After plowing a path of destruction through the Caribbean, Hurricane Ian struck Florida on Sept. 28 and moved up the East Coast, with damaging winds, severe flooding, and life-threatening storm surge.

Webinar Series Highlights Regionally Relevant Research in Hawaii

On Dec. 7, the 2022 Hawai'i Marine Debris Action Plan Research Webinar Series concluded after taking place throughout November and December.

The Puerto Rico Community Comes Together to Reduce Aquatic Debris

On Dec. 5-9, the NOAA Marine Debris Program, in collaboration with the Environmental Protection Agency's Trash Free Waters Program, hosted a virtual workshop to identify actions and strategies for the implementation of the Puerto Rico Strategic Plan to Reduce Aquatic Debris.

NOAA and Partners Hold Heat-Focused Tabletop Exercise

Extreme heat is one of the [leading causes of weather-related illness and death](#)([link is external](#)) in the United States, causing more fatalities in a typical year than hurricanes, tornadoes, severe storms, and floods. As climate change continues to increase the likelihood of weather extremes, the impacts of heat on communities—especially on their most vulnerable citizens—is likely to worsen.

Young Pacific Leaders Visit NOAA's Inouye Regional Center

On Nov. 29, the 2022 [Young Pacific Leaders](#)([link is external](#)) cohort visited the Inouye Regional Center in Honolulu, Hawaii, for a facility tour and presentations from NOAA team members. The Young Pacific Leaders Program is organized by the U.S. government and aims to build the leadership capabilities of youth in the region and strengthen ties between the United States and the Pacific.

NOAA, Partners Exercise a Worst-Case Discharge in Anacortes, Washington

In early October, NOAA OR&R scientists participated in a functional tabletop exercise in Anacortes, Washington. The purpose of the exercise was to demonstrate the capability of the oil industry and other agencies working together to develop an oil spill response plan that is used to minimize and mitigate the impacts of an oil spill.

USA: 32,000+ ABANDONED & ORPHANED OFFSHORE WELLS LITTER THE OUTER CONTINENTAL SHELF

December 19 - Sitting about 12 miles off the Louisiana coast near the mouth of the Mississippi River, an abandoned well has been spilling oil into the Gulf of Mexico for the past 18 years. This is the longest-running oil spill in U.S. history and is still ongoing at the time of this writing. Left unchecked, it could continue to spill oil into the ocean for another 100 years.

It all started in 2004 when Hurricane Ivan struck the Gulf of Mexico, passing within about 62 miles of a fixed offshore platform owned by Taylor Energy. It hit as a Category 3 hurricane, bringing 145-mph winds and 70-foot ocean swells that caused an underwater mudslide—ultimately capsizing the rig and moving it about 560 feet before it was buried beneath 150 feet of mud on the ocean floor. At least 28 oil wells were exposed. gCaptain / [Read more](#)

USA: PIPELINE REGULATOR REVIEWING SPECIAL PERMITS AFTER KEYSTONE OIL SPILLS

December 21 - The U.S. pipeline regulator launched a review this year of its special permits that waive certain operating requirements for pipelines, following a government report into spills on TC Energy's Keystone oil pipeline, a source familiar with the matter said.

The review for U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) highlights growing questions by legislators about whether such permits contribute to spills. The most recent major spill occurred this month in rural Kansas along Keystone, the only U.S. oil pipeline with a special permit to operate at higher pressure. Reuters / [Read more](#)

USA: EPA ENFORCEMENT AND COMPLIANCE ANNUAL RESULTS FOR FISCAL YEAR 2022

December 21 - During fiscal year (FY) 2022, EPA's enforcement and compliance program continued its mission to target the most serious water, air, land, and chemical violations and hazards that impact communities across the country. Our work reduced, treated or eliminated 95 million pounds of pollutants, and required violators to pay over \$300 million in penalties fines and restitution. Our primary focus was advancing environmental justice (EJ), rebuilding EPA's national inspector corps, and working to mitigate the effects of climate change, particularly in communities overburdened by pollution.

The Office of Enforcement and Compliance Assurance (OECA) committed in EPA's Strategic Plan to increase the percentage of annual on-site inspections in communities with potential EJ concerns from 30% to 55% by FY 2026. In FY 2022, EPA outperformed and achieved 56% of on-site inspections in overburdened communities. Noted in the sections below, our FY 2022 accomplishments focused on protecting vulnerable communities using the full range of compliance monitoring and enforcement tools, including inspections, technical assistance supported by advanced technologies, and early actions and innovative remedies to ensure high levels of compliance with federal environmental laws and regulations. EPA / [Read more](#)

USA: EPA SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

December 23 - Are you an entrepreneur with an idea for environmental technology? EPA's Small Business Innovation Research (SBIR) Program may be an opportunity to help advance your innovation. [Learn About SBIR.](#)

[SBIR Program Overview](#) - EPA is one of 11 federal agencies that participate in the SBIR Program established by the Small Business Innovation Development Act of 1982. EPA issues annual solicitations for Phase I and Phase II research proposals from science and technology-based firms. Phase II contracts are limited to small businesses that have successfully completed their Phase I projects. EPA / [Read more](#)

USA: OR&R - 2022 ACCOMPLISHMENTS: THE YEAR IN REVIEW

In fiscal year 2022: we helped to recover \$114 million from pollution settlements for restoration in five states; we awarded approximately \$3.7 million in federal funds to 14 new marine debris projects; we announced a \$56 million competitive funding opportunity using Bipartisan Infrastructure Law funding to remove large debris and deploy proven interception technologies; we partnered with NOAA's National Sea Grant office to establish a new funding opportunity to improve disaster preparedness within coastal communities; we launched a full refresh of Environmental Sensitivity Index data as part of an emphasis on freshwater spill preparedness in the Great Lakes region; and we worked with the U.S. Coast Guard to conduct important research on characterizing oil on water in ice environments at three locations in the Arctic. These accomplishments show our dedication to science-based solutions for protecting and restoring natural resources from coastal hazards. NOAA OR&R / [Read the detailed list](#)

USA: COAST GUARD CELEBRATES 50 YEARS OF RESEARCH AND DEVELOPMENT

December 28 - The Coast Guard Research and Development Center (RDC) marked its 50th anniversary this year and just announced a series of commemorative activities coming up in 2023.

The New London, Connecticut-based RDC, which currently employs a staff of 82, has produced more than 2,000 research products since it was established Sept. 1, 1972. Much of this work, including using sensors in search and rescue, fielding biometric systems to identify drug smugglers, improving oil spill response, and deploying randomized security tactics to protect U.S. ports, has significantly enhanced the Coast Guard's ability to carry out its mission. US Coast Guard / [Read more](#)

PEOPLE IN THE NEWS

PEMSEA WELCOMES NEW STAFF, AND MAKES FOND FAREWELLS



December 20 - Ms. Abigail Fiona Cruzada (Pictured upper left) is joining as the new Secretariat Coordinator. Abigail is an experienced environmental officer, having worked on project management and policy development in the past seven years.

Ms Kim Shinji (Pictured upper right) joined PEMSEA as the new Deputy Head in charge of Planning and Partnership Development Office of PEMSEA Resource Facility earlier this month.



Fond farewells – As a member of the Management Committee of the PEMSEA Resource Facility (PRF), Ms. Karen See (Pictured lower left) facilitated the meetings of the East Asian Seas Partnership Council, its intersessional activities, the annual Ocean Roundtable Dialogues, and the East Asian Seas Congress 2021



As Head of Planning and Partnership Development, Won Bae Kim (Pictured lower right) played a crucial role in furthering the role of PEMSEA as a regional platform, developing and strengthening relationships with other bodies throughout the region. PEMSEA / [Read more](#)



NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can by submitting news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. This is a free facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 50 countries, it’s a cost-effective way to promote your company. If you have some news you would like to share with readers of the ISCO Newsletter, send it to John.McMurtrie@spillcontrol.org

OSRL ANNOUNCES EXPANDED BENEFITS AND ACCESS WITH NEW SWIS MEMBERSHIP AGREEMENT



Photo courtesy of OSRL

Oil Spill Response Ltd (OSRL) has announced the signing of a revised agreement for all SWIS members, establishing several new and updated benefits and removing significant financial barriers to accessing the dedicated subsea service.

SWIS membership provides its subscribing organisations with the ability to access a full subsea intervention capability, including capping and containment, complementing OSRL’s general Tier 3 response membership.

OSRL / [Read more](#)

AN ARTICLE FROM MARCUS RUSSELL AT OSRL - NEXT GENERATION FUELS – THE FUTURE OF EMERGENCY RESPONSE

It is abundantly clear that reaching net zero emissions by 2050 is a highly complex challenge that needs global effort and unity. Humanity is facing an uphill battle when it comes to preserving our planet. The consequence of failure is plain to see when we watch the news and see frequent unprecedented weather, recognising that a massive change in attitudes, behaviours, and infrastructure is required.

Necessity is the mother of invention, and the metaphoric burning platform is well and truly ablaze. Our diverse energy needs dictate that there is no silver bullet solution to the problem, but there is an abundance of next-generation fuels emerging to fill the hydrocarbon void. One challenge, amongst many, is developing the expertise and capability to produce, transport, and distribute these new fuels safely in bulk. Even when operations run safely, incidents could occur, so our crisis managers and emergency planners need to be prepared to manage and respond to incidents of this nature.

The risk matrix of the future will look significantly different from today; each fuel type has its own set of parameters. Depending upon end use, global opinion is divided on the best fit and long-term solutions. Green credentials, operational performance, or financial implications may dictate selection criteria. So what challenges must alternative fuels overcome to become viable, safe and trusted replacements for oil? OSRL / [Read this topical and very interesting article](#)

If you are interested in new technology you may find it useful to visit Technology Innovation News Survey at <https://clu-in.org/products/tins/> and Tech Direct at <https://clu-in.org/techdirect/archive/>

STUDY: OIL SLICKS COVER AN OCEAN AREA TWICE THE SIZE OF TURKEY

December 18 - Images of seabirds covered in crude oil might bring home the impact of spills on ocean ecosystems, but oil in the oceans doesn't always come from newsworthy incidents. Regular discharges from land and from ships at sea make up a far bigger proportion – and deserve more attention.

Chinese and US researchers published a paper in Science earlier this year that for the first time sketches out a global map of oil pollution at sea. It found that anthropogenic contributions accounted for around 94% of the cumulative area of ocean oil slicks between 2014 and 2019. The researchers identified 21 oil slick “belts” that match up closely with busy shipping lanes.

The oil in these cases tends to be lighter and more spread out than that from oil spills – and therefore harder to clean up
The Maritime Executive / [Read more](#)

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS



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

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

232. Exposure patterns among coast guard responders to the Deepwater Horizon Oil Spill: A latent class analysis

Gribble, M.O., Keshav, T., Denic-Roberts, H., Engel, L.S., Rusiecki, J.A.
(2022) Environmental Epidemiology, 6 (3), p. E211.
DOI: 10.1097/EE9.0000000000000211

ABSTRACT: Background: The Deepwater Horizon Oil Spill was an environmental crisis for which multiple groups, including the United States Coast Guard (USCG), provided emergency response services. A cohort of 5,665 USCG oil spill responders completed postdeployment surveys eliciting information on a variety of topics, including oil spill-related exposures and experiences. Our objective was to determine the most common exposure patterns among USCG responders. Methods: We used latent class analysis based on six indicator variables reflecting different aspects of the responders' experiences: exposure to oil, exposure to engine exhaust fumes or carbon monoxide, hand sanitizer use, sunblock use, mosquito bites, and level of anxiety. We validated our interpretation of these latent classes using ancillary variables. Results: The model distinguished four distinct exposure profiles, which we interpreted as "low overall exposure" (prevalence estimate = 0.18), "low crude oil/exhaust and moderate time outdoors/anxiety" (prevalence estimate = 0.18), "high crude oil/exhaust and moderate time outdoors/anxiety" (prevalence estimate = 0.25), and "high overall exposure" (prevalence estimate = 0.38). The validation analysis was consistent with our interpretation of the latent classes. Conclusions: The exposure patterns identified in this analysis can help inform future studies of the health impacts of exposure mixtures among USCG oil spill responders

233. Assessing the environmental risk posed by a legacy tanker wreck: A case study of the RFA War Mehtar

Hill, P.G., Skelhorn, M., Leather, S.
(2022) Environmental Research Communications, 4 (5), art. no. 055005,
DOI: 10.1088/2515-7620/ac5bf0

ABSTRACT: The ocean floor is littered with thousands of wrecks containing hazardous fuels, lubes, armaments and cargoes that have polluted, are polluting, or will pollute the marine environment. The UK Ministry of Defence manages the environmental risk associated with its ~5,700 military wrecks through the Wreck Management Programme. This paper explores the methods used to assess the environmental risk associated with the wreck of the Royal Fleet Auxiliary (RFA) tanker RFA War Mehtar, which lies at approximately 39 m depth, 15 nm east of Great Yarmouth, United Kingdom. The methods employed include archival research, computational oil spill modelling combined with sensitivity mapping, environmental sampling and hydrocarbon concentration analysis, multibeam echosounder sonar surveys and neutron backscatter probe measurements. Each method is described, and its efficacy discussed. The archival research was essential to determine what fuel and cargo the RFA War Mehtar sank with; but only when high-resolution multibeam sonar images were combined with the ship's plans and neutron backscatter measurements from individual tanks could one confidently conclude that the wreck does not pose a significant pollution risk.

2023

1. Biodegradation potential of residue generated during the in-situ burning of oil in the marine environment

Pyke, R., Fortin, N., Wasserscheid, J., Tremblay, J., Schreiber, L., Levesque, M.-J., Messina-Pacheco, S., Whyte, L., Wang, F., Lee, K., Cooper, D., Greer, C.W.

(2023) *Journal of Hazardous Materials*, 445, art. no. 130439,

DOI: 10.1016/j.jhazmat.2022.130439

ABSTRACT: The biodegradability of residues derived from in-situ burning, an oil spill response strategy which involves burning an oil slick on the sea surface, has not yet been fully studied. With a growing risk of oil spills, the fate of the persistent burn residue containing potentially toxic substances must be better understood. Microcosms were used to study the microbial community response and potential biodegradability of in-situ burn residues generated from Ultra Low Sulphur (ULS) marine diesel. Microcosm studies were conducted using residues originating from the burning of unweathered and weathered diesel, with the addition of a fertilizer and a dispersant. Burn residues were incubated for 6 weeks at 7 °C in natural seawater with continual agitation in the dark. Samples were subsequently sacrificed for chemistry as well as 16S rRNA gene amplicon and shotgun metagenomic sequencing. Chemistry analyses revealed a reduction in hydrocarbon concentrations. Medium chain-length n-alkanes (nC16-nC24) decreased by 8% in unweathered burn residue microcosms and up to 26% in weathered burn residue microcosms. A significant decrease in polycyclic aromatic hydrocarbon (PAH) concentrations was observed only for naphthalene, fluorene and their alkylated homologs, in the microcosms amended with residue produced from burning weathered diesel. Decreases of 2–24%, were identified depending on the compound. Microcosms amended with burn residues had distinct microbial communities marked by an increase in relative abundance of putative hydrocarbon degraders as well as an increase of known hydrocarbon-degradation genes. These novel results suggest that if in-situ burning is performed on ULS marine diesel, some of the indigenous bacteria would respond to the newly available carbon source and some of the residual compounds would be biodegraded. Future studies involving longer incubation periods could give a better understanding of the fate of burn residues by shedding light on the potential biodegradability of the more recalcitrant residual compounds.

2. The effect of temperature on hydrocarbon profiles and the microbial community composition in North Saskatchewan River water during mesoscale tank tests of diluted bitumen spills

Xin, Q., Saborimanesh, N., Greer, C.W., Farooqi, H., Dettman, H.D.

(2023) *Science of the Total Environment*, 859, art. no. 160161,

DOI: 10.1016/j.scitotenv.2022.160161

ABSTRACT: Despite many studies of diluted bitumen (DB) behavior during spills in saltwater, limited information is available on DB behavior in fresh water. This study examined the collective weathering processes on changes of fresh DB spilled in the North Saskatchewan River water and sediment mixture in a mesoscale spill tank under average air/water temperatures of 14 °C/15 °C and 6 °C/2 °C. Temporal changes of the hydrocarbon and microbial community compositions in the water column were assessed during the two 35-day tests under intermittent wave action. The contents of total organic carbon (TOC), benzene/toluene/ethylbenzene/xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs) in water decreased with time during both tests. The final contents remained at higher values in warm water (15 °C) than in cold water (2 °C) after the collective weathering processes. A quick response of the main phyla, Proteobacteria and Actinobacteria, was observed, where the members of Proteobacteria enriched during both DB spills. In contrast, the members of Actinobacteria reduced with time. The microbial shifts coincided with the changes of PAHs in the waters at both temperatures. A comparison of the physical properties and chemical compositions of fresh and weathered DBs at both temperatures showed that the oil had undergone weathering that increased oil density and viscosity due to losing the light oil fraction with boiling points < 204 °C and emulsifying with water. This corresponded to losses of 19.0 wt% and 17.2 wt% of the fresh DB at 15 °C and 2 °C tests, respectively. For organic compounds in the DB with boiling points > 204 °C, there were small losses of saturates and 2- & 3-ring PAH aromatics (more during the 15 °C test than the 2 °C test), and negligible losses in the subfractions of resins and asphaltenes by the ends of the tests. <1.0 wt% of the DB was recovered from the bottom sediment, regardless of the temperature.

3. Co-exposure to UV radiation and crude oil increases acute embryotoxicity and sublethal malformations in the early life stages of Atlantic haddock (*Melanogrammus aeglefinus*)

Sørhus, E., Donald, C.E., Nakken, C.L., Perrichon, P., Durif, C.M.F., Shema, S., Browman, H.I., Skiftesvik, A.B., Lie, K.K., Rasinger, J.D., Müller, M.H.B., Meier, S.

(2023) *Science of the Total Environment*, 859, art. no. 160080,

DOI: 10.1016/j.scitotenv.2022.160080

ABSTRACT: Crude oil causes severe abnormalities in developing fish. Photomodification of constituents in crude oil increases its toxicity several fold. We report on the effect of crude oil, in combination with ultraviolet (UV) radiation, on Atlantic haddock (*Melanogrammus aeglefinus*) embryos. Accumulation of crude oil on the eggshell makes haddock embryos particularly susceptible to exposure. At high latitudes, they can be exposed to UV radiation many hours a day. Haddock embryos were exposed to crude oil

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

(5–300 µg oil/L nominal loading concentrations) for three days in the presence and absence of UV radiation (290–400 nm). UV radiation partly degraded the eggs' outer membrane resulting in less accumulation of oil droplets in the treatment with highest oil concentration (300 µg oil/L). The co-exposure treatments resulted in acute toxicity, manifested by massive tissue necrosis and subsequent mortality, reducing LC50 at hatching stage by 60 % to 0.24 µg totPAH/L compared to 0.62 µg totPAH/L in crude oil only. In the treatment with nominal low oil concentrations (5–30 µg oil/L), only co-exposure to UV led to sublethal morphological heart defects. Including phototoxicity as a parameter in risk assessments of accidental oil spills is recommended.

4. Coastline in-situ burning of oil spills, analysis of a Greenland field experiment

Fritt-Rasmussen, J., Wegeberg, S., Lassen, P., Wilms, L.B., Rensvald, L., Larsen, M.B., Geertz-Hansen, O., Wiktor, J., Gustavson, K. (2023) Journal of Hazardous Materials, 441, art. no. 129976, DOI: 10.1016/j.jhazmat.2022.129976

ABSTRACT: In-situ burning is a well-proven technology for combatting oil spills offshore. However, as a coastline oil spill response at rocky shores it is novel and investigated here for the first time. The viability and efficiency of coastline in-situ burning of oil spills and the fate of the resulting burn residue was studied through a field experiment. The experiment included a controlled release of 600 L crude oil and subsequent burn of the oil on a remote coast in Greenland. In line with other documented large-scale offshore burns, a high burn efficiency was estimated. Fate studies and chemical analysis of the burn residue diversely caught in the tidal seaweed vegetation showed varying compositions depending on the specific burn intensity. In general, however, a relative increase in high ring numbered PAHs was observed compared to fresh oil. After 4 days, waves and tidal flushing markedly reduced visible oil and burn residue from the burn area. Elevated concentrations of total hydrocarbons were found from the fresh oil in the seawater, but the impacts on the coastal water was below levels of ecotoxic concern. Overall, coastline in-situ burning proved efficient, with a high operational potential. In addition, when the oil is in place at the coast, with a possible increased operational time window compared to an offshore burn.

TRAINING COURSES

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

USEFUL LINKS

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

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

CERTIFICATE IN MARITIME ENVIRONMENTAL MANAGEMENT – LLOYD'S MARITIME ACADEMY

Understand environmental issues and related management matters in the maritime sector

Course commences 25th January 2023 | (VIP CODE: TT01)

[Click here for course content](#) | [Click here for Fee information](#) | [Click here to view course homepage](#)

[Click here to apply - £ GBP](#) | [Click here to apply - \\$ USD](#)

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

Online, 12 weeks, Starts 15th March 2023 [Visit website for more info](#)

UPCOMING EVENTS

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

To see ALL of the posted events you will need to click on “LOAD MORE” at the foot of each opened “upcoming events” page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event

UPCOMING EVENTS (CONTINUED)

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

NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- Tiered Preparedness & Response (TPR) Seminar Series, "Environmental Impact Assessment", 8.30 GMT, Wed. 11th January, Norman Ramos (30 min.)
- Tiered Preparedness & Response (TPR) Seminar Series, "Subsea Response Readiness", Thur. 18th January, 1400 GMT, Andy Myers (60 min.)
- Tiered Preparedness & Response (TPR) Seminar Series, "Bridging Response to Research", Tues. 24th January, 1400 GMT, Rob Holland & Rhea Shears, (60 min.)
- Webinar from ALGA – Consultation on Validation of PFAS Soil Treatment Technologies, 19th January 2023
- Canada – 45th Technical Seminar on Environmental Contamination & Response, Edmonton, Alberta, 4-6 June, 2023

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- Norway – NOSCA Seminar 2023, Bodo, Norway, 20-24 March, 2023
- USA – Clean Waterways Conference & Exhibition, Denver CO, 11-13 April 2023
- European Maritime Day, Brest, France, 24-25 May, 2023
- UK: Hazmat 2023 Conference, 24-25 May 2023
- Australia – SPILLCON 2023 Conference & Exhibition, 11-15 September 2023

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

MESSAGES FROM EVENT ORGANISERS

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

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

- Early warning, remote sensing technologies
- Subsea dispersion
- Experiences from recent incidents
- Standardization project
- Technology transfer: From traditional oil spill prevention to combat marine litter
- Observation of OKEA's large scale exercise "Draugen"

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

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

We hope you have had a wonderful Holiday season and are enjoying time with family and friends! If you're back to work this week, it's the perfect time to cross-off registering for the [CLEAN WATERWAYS 2023 Conference](#) and use any remaining budget leftover from this year. Prices increase at the end of January so this is a great way to secure your discount before the chaos of a New Year begins! Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#) [EXHIBIT SPACE AND SPONSORSHIPS ARE AVAILABLE](#) [Agenda](#).

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

ADRIASPILLCON 2023 will be held in Opatija, Croatia, between 16 and 18 May 2023 and is being organized by ATRAC - Adriatic training and education centre for accidental marine pollution preparedness and response, with the support of the Ministry of Maritime Affairs, Transport and Infrastructure. The Conference website is currently being finalized. Among the organizations that support the Conference (i.e. IMO, REMPEC, EMSA, IOPCF, ITOPE, CEDRE, etc.). Watch this space for more information.

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

The Seminar provides a forum for professionals working in the field of oil and hazardous materials spills. The forum facilitates the transfer of scientific results and is intended to link research and the operational community. All submitted papers are peer-reviewed by scientific and technical experts. The Technical Seminar features plenary sessions of 10- or 20-minute presentations on spill-related topics including Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE). Sessions will begin at 8:00 a.m. each

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

day. The presentations are followed by a 5- or 10-minute question and answer period. Sessions may also conclude with Speaker's Corner presentations at which results of more recent research can be discussed without an associated paper. Government of Canada / [Seminar Information](#)

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

Proudly organised by Australia's key government and industry agencies responsible for Australia's marine environmental protection arrangements, the Australian Institute of Petroleum (AIP) and the Australian Marine Oil Spill Centre (AMOSOC) invite you to attend the international oil spill conference for the Asia-Pacific region, Spillcon 2023. Spillcon 2023 will bring together local, regional and global environmental and shipping representatives across industry, government and non-government organisations to provide an avenue to discuss issues including causes and prevention, preparedness, response management and environmental issues.

Spillcon 2023 has been confirmed for 11 – 15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. This website will be regularly updated with further information for sponsors, exhibitors and delegates.

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

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. With the end of the year quickly approaching, now is a great time to use any leftover marketing funds and invest in your business for 2023! Contact Renie Mayfield at 720-289-7008 or rmayfield@accessintel.com to secure your exhibit space or sponsorship.

USA: IOSC 2024 CALL FOR PAPERS AND POSTERS IS NOW OPEN

As an internationally recognized technical and policy forum, the International Oil Spill Conference (IOSC) is seeking thematically related papers and posters for its next convening in New Orleans, Louisiana, on May 13 - 16, 2024. Please visit

<https://ssl.linklings.net/conferences/IOSC/> to begin working on your submission. If you have questions, please contact the IOSC Program Management Team at speakers.iosc.org.

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATIONS

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

OTHER OPPORTUNITIES: USA & EUROPE

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

JOB VACANCY

USA: DIRECTOR, NATIONAL SPILL CONTROL SCHOOL

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

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

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

https://tamus.wd1.myworkdayjobs.com/en-US/TAMUCC_External/job/Corpus-Christi-TX/Director--National-Spill-Control-School_R-056071

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

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

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

NEW PUBLICATIONS



In This Issue -

- Back-to-Back Responses
- Intro to New Staff
- Recent Activities and Upcoming Events
- Species Spotlight: Double-crested Cormorant

[Download the Winter Issue](#)

INCIDENT REPORTS

USA: KANSAS – KEYSTONE OIL SPILL UPDATES

Dec. 19 - TC Energy says cold weather could hinder recovery of oil from Keystone pipeline leak [Calgary Herald](#)

Dec. 19 - More than half of oil spilled in Keystone Pipeline rupture recovered [WIBW](#)

Dec 20 - TC Energy has submitted plan to restart Keystone oil pipeline after spill – source [Reuters](#)

Dec. 22 - Pipeline company says Kansas oil spill contained, but chemicals found downstream [KAKE.com](#)

Dec. 23 - Keystone Oil Spill Continues To Raise Questions As Cleanup Timeframe Unclear [Urdu Point](#)

Dec. 24 - Company: Regulators OK reopening of Kansas pipeline segment [KFYRTV](#)

Dec 29 - TC Energy says Keystone pipeline returns to service [Reuters](#)

VIETNAM - CONTAINER SHIP PACIFIC EXPRESS LOST 10 CONTAINERS OVERBOARD

Dec. 17 -Off Quang Nam Province Coast, Central Vietnam, South China Sea. www.maritimebulletin.net

THAILAND - COASTAL CONTAINER SHIP SANK IN GULF OF SIAM

Dec 18 - Coastal container ship SUNTUD SAMUT 2 ran into trouble at night Dec 17-18 in Gulf of Siam, while en route from Surat Thani to Laem Chabang, Thailand, with 36 containers on board, in stormy weather brought by strong northern wind, raging in the area since Dec 17. The ship approached coast, last AIS pos was 1.7 nm off beach. The ship reported distress situation and requested assistance, reportedly she sank, but it is not confirmed www.maritimebulletin.net

THAILAND - TANKER BEACHED BY STORMY WIND, GULF OF SIAM

Dec. 18 - MT PATTARAPUN, IMO 9036832, dwt 2980, Songkla Harbor, seems to drift aground at around 1630 LT Dec 18

INCIDENT REPORTS (CONTINUED)

UPDATE: Confirmed aground, anchor dragged in strong northern wind. Tanker is in ballast, crew remain on board. No salvage possible until weather calms. www.maritimebulletin.net

GERMANY – KIEL CANAL CLOSED DUE TO OIL SPILL

Dec. 21 - The Kiel Canal has been closed due to a serious oil spill/pollution at Brunsbuettel inner harbour area. (For further details and updates, as well as information about operations in the Kiel Canal, contact the GAC Dubai Hub Agency Centre at hub.ae@gac.com) See also [Hellenic Shipping News](#)

KOREA – GENERAL CARGO SHIP CAPSIZED, SANK IN YELLOW SEA

Dec. 21 - General cargo ship HYUNDAI FASHION sank in Yellow sea at around 0900 Seoul time Dec 21, due west of Gunsan, Korea www.maritimebulletin.net

USA: CALIFORNIA - SALVAGE CONTINUES FOR GROUNDED FISHING VESSEL ON SANTA CRUZ

Dec. 21 - Salvage crews are making progress on the salvage of the grounded fishing vessel Speranza Marie on Southern California's Santa Cruz Island—the largest of the Channel Islands. The 60-foot F/V Speranza Marie was carrying roughly 1,000 gallons of diesel when it grounded in National Park Service waters in Chinese Harbor, on the northern side of the island. [gCaptain](#)

BELGIUM: MSC CONTAINERSHIP HELD OFFSHORE AFTER BELGIUM RECEIVES BOMB THREAT

Dec. 22 - An MSC containership is being held offshore while the Belgian authorities investigate a bomb threat made against the vessel shortly before it arrived at the Port of Antwerp on December 22. The Belgian authorities said they had decided to return the ship to the anchorage as a precaution until an investigation can be completed. [The Maritime Executive](#)

BANGLADESH: PRODUCT TANKER SINKS IN BANGLADESH'S MEGHNA RIVER, SPILLING FUEL

Dec. 26 - A tanker full of diesel has gone down in Bangladesh's Meghna river after colliding with another vessel, spilling a large quantity of fuel, according to local media. In the early hours of Sunday morning, the tanker Sagor Nandini-2 was under way on the Meghna near the district of Bhola when it was in collision with an unnamed vessel in heavy fog, according to the Bangladesh Coast Guard. The tanker sustained hull damage below the waterline, and it went down with about 300,000 gallons of distillate fuel oil on board. [The Maritime Executive](#) [Thanks to John Wardrop] See also [The Business Standard](#)

USA: TEXAS - 3,800 GALLONS OF LIGHT CRUDE OIL SPILLED IN CORPUS CHRISTI

Dec. 27 - 3,800 gallons of light crude oil spilled in Corpus Christi Bay. The spill was reported about 11 p.m. Saturday. It was determined the oil came from a pipeline that had cracked in multiple places. [Spectrum News](#) See also [UPI.com](#)

ISRAEL: 9 CONTAINERS OVERBOARD, LOCALS LOOT BEACHED GOODS

Dec. 27 - Container ship ASTRID L lost 9 containers overboard at Ashdod Anchorage, Israel, on Dec 27. At least three 40-foot containers loaded with house electronics, including refrigerators, household utensils and other consumer goods, drifted ashore. Locals started to loot containers cargo in the evening Dec 27, and continued well into Dec 28. www.maritimebulletin.net

FRANCE: DEC 29 FEEDER LOST THREE 40-FOOT CONTAINERS IN ENGLISH CHANNEL

Dec. 29 - Container ship HANNA lost three 40-foot containers overboard shortly after 0000 UTC Dec 29, 23 nm west of Ushant island, southwest English Channel, while en route from Le Havre to Bordeaux. The ship continued voyage, ETA Bordeaux Dec 30. containers, reportedly, don't have hazmat cargoes.

Legal disclaimer: Whilst ISCO takes every care to ensure that information published in this newsletter is accurate unintentional mistakes can occur. No liability for consequences of errors is accepted but, if an error is brought to our attention, a correction will be printed in a following issue of this newsletter. Products and services featured in the ISCO Newsletter and/or the ISCO website, including the International Directory of Spill Response Supplies and Services, have not been tested, approved or endorsed by ISCO. Any claims made by suppliers of products or services are solely those of the suppliers and ISCO does not accept any liability for their accuracy. It should not be assumed that views and opinions expressed in linked reports, articles and other content reflect the views of the organization. Subscription is subject to acceptance of ISCO's Terms and Conditions as published on the website www.spillcontrol.org and your acceptance of ISCO's Data Protection and Privacy Policy.
