

ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for profit organization dedicated to raising worldwide preparedness and co-operation in response to oil and chemical spills, promoting technical development and professional competency, and to providing a focus for making the knowledge and experience of spill control professionals available to Intergovernmental, Governmental, NGO's and interested groups and individuals

ISCO holds consultative status at the International Maritime Organisation and observer Status at International Oil Pollution Compensation Funds

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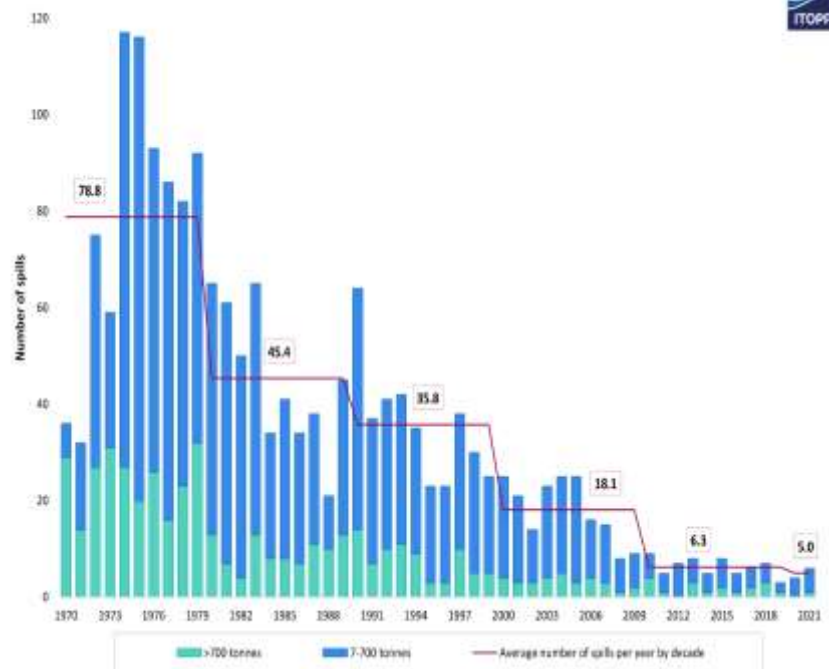
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INTERNATIONAL NEWS

CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



ITOPF PUBLISHES TANKER SPILL STATISTICS FOR 2021



Number of medium (7-700 tonnes) and large (>700 tonnes) tanker spills, 1970 -2021

Data from ITOPF shows that six oil spills over 7 tonnes were recorded from tanker incidents in 2021. This is a slight increase on 2020, but on a par with the average for the 2010s and a dramatic reduction from the numbers reported in earlier decades, as illustrated above.

Only one of the six incidents in 2021 resulted in a spill greater than 700 tonnes (classified as a 'large' spill). This occurred in Asia in April and involved heavy crude oil.

The five other incidents (classified as 'medium' spills) involved crude, slurry and non-persistent oils.

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WHATSAPP GROUP FOR STUDENTS, TRAINEES & APPRENTICES

Here is the link for joining this group –

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

ADVANCE YOUR CAREER BY GAINING PROFESSIONAL RECOGNITION

Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment.

All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO.

The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications. You can apply for MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

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INTERNATIONAL NEWS (CONTINUED)

The total volume of oil lost to the environment from tanker spills in 2021 was approximately 10,000 tonnes, the majority of which was spilt in the one large incident. This figure is higher than the previous two years but remains a fraction of the 1.7 billion tonnes of oil that is transported by sea each year.

Despite some annual fluctuations, the number and volume of oil spills from tankers has plummeted since ITOPF's records began half a century ago and is largely stabilising at a low level. This reduction has been driven by positive change from the shipping industry, supported by governments, and their ongoing commitment to exploring and investing in ways to improve maritime safety and environmental protection.

For more detailed info please visit <https://www.itopf.org/knowledge-resources/data-statistics/statistics/>

ISCO NEWS

NEXT ISCO MONTHLY ZOOM MEETING OF MEMBERS

The next monthly meeting will be on Thursday 27th January 2022 at 3 pm EST. That's 8 pm GMT.

The link for joining the meeting is <https://us02web.zoom.us/j/89309953413>
Meeting ID: 893 0995 3413

ONLINE MEETINGS WITH STUDENT MEMBERS

These are online meetings where each student presents for about 15 to 20 min. We will learn about each student's area of work and how this stream of science adds value to domain of oil spill response / plastic pollution or such related areas. Another ten minutes will be available for Q & A".

Meetings are held at 2 pm GMT. The Schedule for the next meetings with Capt. D. C. Sekhar are as follows - Larrisa Montas: Thursday 20th January, 2022; Marko Dordevic: Thursday 3rd February, 2022. For more info about joining these meetings please contact balogunkayodepeter@yahoo.com or captdcsekhar@gmail.com

NEXT STUDENT MEMBER PRESENTATION

The next presentation will be given at 2 pm GMT on 20th January by Larissa Montas, Department of Chemical, Environmental and Materials Engineering University of Miami. The title of her presentation is "Use of a 3-D Fate and Transport Model to estimate "Age-at-Sea" and PAH Depletion of Weathered Oil Slicks".

Larissa's profile and a summary of her forthcoming presentation can be found on Page 2 of last week's ISCO Newsletter (Issue 820).

The Google Students Meeting joining link is <https://meet.google.com/qfe-icyq-ncd> or dial: (US) +1 413-893-3153 PIN: 597 219 022#

More phone numbers: <https://tel.meet/qfe-icyq-ncd?pin=7948154759147>

PUBLICATION OF UPDATED ISCO CONSTITUTION AND BYE-LAWS

These documents have now been published and can be viewed in the members' area of the ISCO website www.spillcontrol.org You will need to log in and look under ISCO.

PUBLICATION IN SPANISH LANGUAGE OF ED LEVINE'S ARTICLE ON COMMUNICATING DURING A RESPONSE

In the Latin America Section of the ISCO website you are now able to read the Spanish translation of Ed Levine's excellent article: "Communicating Internally and Externally during a Response: Life's Lessons Over 32+ Years.... " The article, in its original version, was published in the ISCO Newsletters N ° 818 and 819 of December 2021 and January 2022 respectively, being previously presented at the 2021 International Oil Spill Conference. Ed Levine has a unique outlook from his role and experiences at NOAA. This paper gives us, the readers in Latin America, his reflections on this subject and the necessary role of science and the need for proper communications when making decisions, and related with this role, the skills with which those responsible must be prepared when it comes to communications.

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INTERNATIONAL NEWS – ISCO NEWS (CONTINUED)

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ISCO OFFERS A FREE MEMBERSHIP FOR STUDENTS, TRAINEES AND APPRENTICES

Download the application form at <https://spillcontrol.org/membership-application-form/>

- **A WHATSAPP GROUP HAS BEEN CREATED FOR STUDENT MEMBERS**
Group leader Kayode Peter Balogun advises “Follow this link to join the ISCO WhatsApp group: <https://chat.whatsapp.com/KMxdW7IEal79namyNlbVqq>”
- **DURATION OF FREE PERIOD OF MEMBERSHIP FOR STUDENTS, TRAINEES AND APPRENTICES**

ISCO provides Student Membership free of charge during the period of the student’s studies.

Students, trainees and apprentices are invited to join the Group and send in their profiles, a photo and share news of their activities for sharing information and possibilities for ideas-exchange and co-operation.

Student Members are invited to submit articles about the work they are doing.

Student Group leader Peter Balogun can be reached at balogunkayodepeter@yahoo.com He can relay any messages you would like to send to Student Members of ISCO. Mary Ann Dalglish (VP Membership) can be reached at mrydetroit@aol.com.

We do our best to alert you about things that may be of interest to you and ask that you reciprocate by sending us info on events, opportunities, etc. that may be of interest to other Student Group Members and can be shared on this page.

John.mcmurtrie@spillcontrol.org

MORE INTERNATIONAL AND REGIONAL NEWS

EUROPE: EMSA CELEBRATES 20 YEAR ANNIVERSARY

Since its foundation in 2002, EMSA has been at the side of the European Commission and the Member States carrying out an ever-increasing set of tasks. 20 years on, its role and mission remain as vital as ever. The voyage continues.

Founded in 2002 in response to the Erika and Prestige disasters, EMSA’s mission is to serve EU maritime interests for a safe, secure, green and competitive maritime sector and act as a reliable and respected point of reference in the maritime sector in Europe and worldwide.

The concept of a European Maritime Safety Agency (EMSA) as a regulatory agency originated in the late 1990s along with a number of other major European maritime safety initiatives. EMSA was established by Regulation (EC) No 1406/2002 as a major source of support to the Commission and the Member States in the field of maritime safety and prevention of pollution from ships. Subsequent amendments have refined and enlarged its mandate.

EMSA’s mission is to serve EU maritime interests for a safe, secure, green and competitive maritime sector and act as a reliable and respected point of reference in the maritime sector in Europe and worldwide. EMSA / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

CANADA: WHAT HAPPENS WHEN CONTAINERS ARE LOST AT SEA?

January 12 – An interesting article published in the Maritime Executive and written from a Canadian perspective.



Photo: A lost container from Zim Kingston on a pristine stretch of Vancouver Island’s northwest shoreline (Canadian Coast Guard)

“There was a brisk wind blowing off Canada’s Pacific coast as the small boat approached the beach on its perilous mission. Cold, salty sea-spray was blowing back, stinging the faces of the volunteers as they were trying to steady themselves along with their burlap bags and equipment, all while the boat was being tossed around in the choppy seas”.

Originally published in *Clear Seas*, the conclusions are of international importance. [Continue reading this article](#)

FRANCE: EMERGENCY RESPONSE SUMMARY FOR DECEMBER 2021

Cedre received a request for expert advice from the DDTM for Bouches-du-Rhône following a fire at a non-hazardous waste storage facility, entailing a risk of the extinguishing water reaching Berre Lake. We were questioned in particular on the analyses to be conducted in the contaminated watercourse and the filtration systems to be used if a retention basin were created. Brittany's regional environment directorate (DREAL Bretagne) sought Cedre's support following a fire on board a trawler in a closed harbour basin in Sables-d'Olonne, then in relation to the pollution risk posed by the 40 tonnes of diesel on board. Assistance was requested to pre-identify storage and pumping solutions as well as contractors capable of conducting operations. Cedre also provided advice to the Communauté d'Agglomération de La Rochelle on clean-up in rainwater trenches following a spill of home heating oil, as well as to the Finistère fire brigade after a heavy goods vehicle overturned and spilled diesel. We were informed by the military police for the Manche area of a road accident involving a small spill of engine oil and coolant into a watercourse. The Swedish Coast Guard contacted us for information on the behaviour of very low sulphur fuel oils following damage to a vessel transporting such fuel near the port of Gothenburg. Finally, a MAR-ICE test was organised by Cedre for the Danish and Czech national ICE focal points in order to question the centre or a national industrial firm in relation to a marine incident involving ferric chloride.

[Read more in the latest issue of the CEDRE Newsletter](#) which also contains the following reports –

- Cedre attends various OSPAR marine litter meetings
- IMAROS project: weathering study and recovery trials
- Meeting with Marseille's Navy Firefighters Battalion (BMPPM)
- Chemical industry meetings
- Litter study in urban networks
- Participation in a day on plastic pollution in inshore waters
- Training: Merchant ships and the role of shipping industry stakeholders in maritime incidents
- Remote IMO level 3 training for Taiwanese Ocean Conservation Administration
- Minilab on aquatic litter at Océanopolis

ITALY: COSTA CONCORDIA: 10 YEARS AFTER THE SHIPWRECK, THE ANALYSIS ON THE ENVIRONMENTAL RESTORATION OF THE SEABED

January 11 - On 13 January 2012, in the waters of the Giglio Island, the cruise ship Costa Concordia sank in a tragic event, which cost the lives of 32 people, and also caused considerable damage to the coastal environment, especially to the seabed.

Damage determined by the presence of the wreck and by the site activities, necessary to remove and move it away; in addition to the damage caused by harmful substances the ship was loaded with: fuel, heavy oils, paints and detergents.

An Observatory was set up to monitor the proper conduct of operations, whose work is still ongoing and in which representatives of the MiTE, ISPRA, Arpa Toscana and the local authorities involved participate.

The restoration works carried out so far have been more successful than expected. Removed the causes of the loss of posidonia, the transplants carried out in 2016 have shown a doubling of the number of transplanted beams, just as those carried out since 2019 seem to have a similar outcome. Similarly for the gorgonians, the high survival and healing rates have meant that some rock faces have regained their original three-dimensionality and are approaching their natural condition. ISPRA / [Read more](#)

MAURITIUS: WAKASHIO'S STERN DISMANTLED



Photo: Crane vessel working to remove Wakashio's stern. Photo credit: Vel Moonien

January 12 - The aft-part of the Panamanian-flagged ore carrier Wakashio has been disassembled in Mauritius. (Article by Vel Moonien in Mauritius).

The [MV Wakashio](#) will now soon be a distant memory for the inhabitants of the seaside resorts of Blue-Bay and Pointe-d'Esny, in the South-east of Mauritius. Eighteen months after the giant ore carrier ran aground on the reef, the stern has been completely dismantled.

The debris, scattered over a 300-meter radius around the site, will be recovered by next week.

The Ministry of Environment will then determine what damage has been done to the marine ecosystem along the Southeast coastline, which is home to the Blue-Bay Marine Park and a Ramsar site. The State of Mauritius will then calculate the amount to be claimed from the insurer of the ship, owned by the Japanese company Nagashiki Shipping. gCaptain / [Read more](#)

NIGERIAN STATE DISPUTES BLAME FOR OIL SPILL IN QUEST FOR DAMAGES

January 12 – Article by Richard Clowes in Bloomberg - A local government in the Niger Delta is disputing the conclusion of an investigation over who was to blame for a five-week oil spill, with potentially significant implications for affected communities' prospects of securing compensation.

Lagos-based Aiteo Eastern E&P Co. and Nigerian federal agencies concluded in a joint investigation that the rupture of an oil well in early November, which spilled thousands of barrels of crude into surrounding waterways, was caused by sabotage. The government of Bayelsa state, which was also part of the probe, says the company is at fault.

Under Nigeria law, overturning the investigation's findings would be the only way that communities affected by the spill can pursue financial damages. If the owners of the infrastructure are found to be responsible they are liable to pay compensation, but not if the spill is attributed to third-party interference through vandalism or theft. Bloomberg News / [Read more](#)

PAKISTAN: MARITIME SECURITY AGENCY ORGANIZES EXERCISE BARRACUDA-XI



January 12 - Wreath laying and opening ceremonies of the exercise were held on 11 Jan 22 at HQs Pakistan Maritime Security Agency.

The proceedings of the day began with Flag Hoisting followed by wreath laying on Shuhadas monument at HQ PMSA A total of 16 foreign observers from 13 countries including Australia, Azerbaijan, Bangladesh, Bahrain, France, Japan, Korea, Maldives, Saudi Arabia, Sri Lanka, Tanzania, Turkey and United States of America are participating in the exercise.

Later, opening ceremony of ex barracuda XI was held at Beach Luxury Hotel. Minister of State for Climate Change Ms Zartaj Gul Wazir graced the occasion as Chief Guest Director General Pakistan Maritime Security Agency, Rear Admiral Mirza Foad Amin Baig HI (M) welcomed the participants and explained that barracuda is a series of international exercises which is

conducted on regular basis under overall coordination of Pakistan Maritime Security Agency.

He added that the aim of barracuda XI is to exercise Marine Oil Spill response and Search & Rescue procedures as per Pakistan's National Marine Disaster Contingency Plan (NMDCP) while sharing experiences with friendly countries. Participation of all national stakeholders and international observers will be instrumental in refining our co-ordinated response against oil spill as well as Search & Rescue requirements at regional level. Pakistan Observer / [Read more](#)

SRI LANKA: OIL, ACID, PLASTIC: INSIDE THE SHIPPING DISASTER GRIPPING SRI LANKA

Photo: The tiny size of the plastic pellets means that some must be collected and hand sieved a laborious process. So far, Sri Lanka has filled 53,000 garbage bags with pellets, sand and other debris. Photo: Sri Lanka Marine Environment Protection Authority

January 12 - Originally published in July 2021, this story has been updated to include the latest facts, figures and references.

It's visible in satellite images from just off Sri Lanka's coast: a thin grey film that snakes three kilometres out to sea before disappearing into the waves.

Marker buoys have been deployed around the periphery of X-Press Pearl to create a 50-meter safe zone around the wreck.



The slick is a visceral reminder of what observers say is a slow-motion environmental disaster – one of the worst in the country's history – and of the mammoth effort that will be needed to clean it up.

"This is the biggest environmental catastrophe to hit Sri Lanka since the 2004 Indian Ocean Tsunami," said Thummarukudyil Muraleedharan, the Operations Manager of the Crisis Management Branch with the United Nations Environment Programme (UNEP).

For Sri Lankans, the small plastic pellets, which are about the size of a lentil, have been the most visible sign of the X-Press Pearl sinking. Using publicly available data, Withanage estimates the ship contained 70-75 billion individual pellets. Partow said the disaster is the single-largest release of nurdles into the ocean ever reported. UNEP / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

January 10 – Please click on the links below to download and read the latest news from NOAA OR&R

[Settlement Proposed to Restore Natural Resources from an Oil Spill in Offshore Louisiana](#)

On Dec. 20, 2021, a settlement was proposed in Federal District Court to resolve claims related to the Taylor Energy Platform oil spill at Mississippi Canyon 20 ("MC-20"). \$16.5 million of this settlement is to restore natural resources injured by the spill.

[Sandy ESI Status Update](#)

So many new and exciting things are happening in the world of ESI mapping! The first half of 2014 focused on developing work plans and contracting for the north- and mid-Atlantic "Sandy" updates. As you may recall, following Post Tropical Cyclone Sandy, Congress provided funding to several agencies to ensure that current and accurate spatial data are available for preparedness and response activities in the Sandy-affected areas. As part of this venture, the Office of Response and Restoration (OR&R) received funding for ESI mapping from Maine to South Carolina. The enormity of the geographic area and time constraints, coupled with the unique opportunity to coordinate with and benefit from the mapping being done by other agencies as part of this effort, led us to approach the Sandy work in a slightly different manner than most of our prior ESI mapping projects.

USA: U.S. NAVY AGREES TO DRAIN THE STRATEGIC FUEL DEPOT FOR PEARL HARBOR

January 11 - Facing an uphill court battle with the state of Hawaii, along with congressional pressure and two independent investigations, the U.S. Navy has decided to comply with a state order to drain the strategic Red Hill fuel storage facility outside of Honolulu. State regulators believe that one or more of the spills reported at Red Hill in 2021 contaminated a Navy supply well for the water system at Joint Base Pearl Harbor-Hickam, forcing thousands of servicemembers and their family members to relocate to temporary housing. The Maritime Executive / [Read more](#)

USA: PFAS SUPERFUND DESIGNATION: EPA'S LATEST STEP STARTS 90 DAY CLOCK

January 11 - On January 10, 2022, the EPA submitted a plan for a PFAS Superfund designation to the White House Office of Management and Budget (OMB) when it indicated an intent to designate two legacy PFAS – PFOA and PFOS – as "hazardous substances" under the Comprehensive Environmental Response, Compensation & Liability Act (CERCLA, also known as the Superfund law). The EPA previously stated its intent to make the proposed designation by March 2022 when it introduced its PFAS Roadmap in October 2021; however, critics argued that the EPA had said for years that it would take this step, but never did. Now, under the regulatory procedures in place, the OMB must make any opposition to the EPA's proposal within 90 days. If it does not, the EPA will introduce the designation into the Federal Register for public comment, keeping it on track for a final rule designation by 2023. The National Law Review / [Read more](#)

VIETNAM: COCA-COLA AND THE OCEAN CLEANUP JOIN FORCES IN VIETNAM TO TACKLE PLASTIC POLLUTION



January 13 - Coca-Cola Vietnam and The Ocean Cleanup today announced that the Can Tho river in Can Tho City has been selected as one of 15 river locations around the world as part of a global partnership between the two organizations to use advanced technology to help stem the tide of plastic pollution entering oceans, by first intercepting and cleaning up waste in rivers.

In 2021, The Coca-Cola Company became a global implementation partner for The Ocean Cleanup's river project. The partnership brings the beverage company and the technological non-profit organization together in an exciting partnership to help clean up some of the world's major rivers.

In addition to supporting the deployment of cleanup systems,

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

the partnership also aims to engage and bring together industry and members of the public to help tackle plastic pollution. Using solar-powered technology, The Ocean Cleanup's Interceptor™ river cleanup solution is a robot that extracts marine debris. The original Interceptor™ was unveiled in 2019 and is the first scalable solution to prevent plastic from entering the world's oceans from rivers.

After years of planning, the Interceptor™ known as 003 or René, was launched into the Can Tho river for detailed testing last month. It is expected to become fully operational over the next few months, and is capable of extracting up to 50,000 kg of trash per day. ScubaVerse / [Read more](#) [Thanks to Dan Sheehan, Hon.FISCO]

OBITUARY

REMEMBERING KENNETH BARNSHAW (SHAW) THOMPSON, III



January 10 - Our industry has suffered a loss with the passing of our friend and colleague, Shaw Thompson. He was highly respected among his peers for his positive impact to our trade. His many contributions to the business will be felt for years to come and he will be greatly missed.

Kenneth Barnshaw (Shaw) Thompson, III, a successful business executive highly regarded for his expertise, integrity and leadership in the environmental services industry, died Jan. 1 after a long and courageous battle with pancreatic cancer. He was 65.

A New Orleans native and resident of the city for all but two years of his life, Shaw was an expert in emergency response to oil spills and hazardous substance release. During a career that spanned four decades, he led team responses to water and land spills primarily in the Gulf South but also in other regions of the country and abroad. He was committed to the well-being of the teams and individuals he led, and built strong connections with co-workers throughout his career. From 2003 to his retirement in 2018, he was president and CEO of Oil Mop, Inc., a company he also served in different capacities earlier in his career – from oil response worker to supervisor to office manager in Texas and then to head of Oil Mop Gulf Services in New Orleans between 1978 and 1984. SCAA / [Read more](#)

TRAINING COURSES

USEFUL LINKS

- AUSTRALIA – AMOSC - <https://amosc.com.au/training/>
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- 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 <http://nscs.tamucc.edu/schedule-2020-2021.html>
- USA – MPC, DETROIT - <https://marinepollutioncontrol.com/services/training-and-compliance>

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

UPCOMING EVENTS

CERTIFICATE IN MARITIME ENVIRONMENTAL MANAGEMENT

From Lloyds Maritime Academy - Starts 27 January 2022 | 12 weeks | 100% online | Tutor-led

This all-encompassing 12-week course will cover all impacts of the maritime sector on environmental management, providing the essential tools you need to minimise your environmental footprint and maximise commercial effectiveness. [More info](#)

TO VIEW UPCOMING EVENTS PLEASE CLICK ON <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

UPCOMING WEBINARS

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Webinar organisers are requested to notify ISCO immediately if a listed webinar is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed webinars have not been cancelled or postponed. It is recommended that you check with webinar organisers before finalising your attendance plans.

Please advise the Editor if any of the entries require correction or updating. If you are holding a webinar you would like to be featured here, please send details to John.mcmurtrie@spillcontrol.org

JANUARY 19 - UK & IRELAND SPILL ASSOCIATION – WAKASHIO PART 6 – ONE YEAR ON - 1500 GMT More info at <https://spillcontrol.org/upcoming-webinars/>

FEBRUARY 9 - WEBINAR ON POINTS TO CONSIDER IN THE SELECTION OF OIL SPILL BOOMS - 10:00 AM (CET) More info at <https://spillcontrol.org/upcoming-webinars/>

MESSAGES FROM EVENT ORGANISERS

USA: CLEAN WATERWAYS - APRIL 5-7, PITTSBURGH, PA

Full Conference Agenda Now Available for CLEAN WATERWAYS 2022

We are excited to announce that the [official conference agenda](https://www.cleanwaterwaysevent.org/), with speakers, is now available for CLEAN WATERWAYS 2022! The conference sessions we have planned are led by experts in both industry and government and focus on topics specific to fresh water spills and environmental considerations. <https://www.cleanwaterwaysevent.org/>

USA: CLEAN PACIFIC - ANNOUNCING 2022 DATES + CALL FOR PRESENTATIONS

We are pleased to announce that the 2022 CLEAN PACIFIC Conference will be held August 23-24 on Lake Washington outside of Seattle, WA. Registration and exhibit space/sponsorship sales will open next month so be on the lookout for those important announcements!

CLEAN PACIFIC brings together the tight-knit response community in the Western United States and Canada to address spill prevention, response and remediation matters pertinent to that region’s environmental sensitivities. The goal of CLEAN PACIFIC is to deliver a valuable event that covers region-specific issues that face the Western United States and Canada and offer ample time for attendees to network and cultivate the relationships that are crucial before, during, or after a response.

We are now accepting abstracts to be reviewed by our committee of experts in spill prevention and response at the upcoming CLEAN PACIFIC 2022 planning meeting. Prospective speakers are invited to [submit](https://www.cleanpacific.org/) a 200–300-word abstract(s) [online](https://www.cleanpacific.org/) for consideration **by Friday, February 11th**. All abstracts are reviewed for content and relevance by the planning committee and are selected by consensus. <https://www.cleanpacific.org/>

EUROPE: BRING EUROPEAN MARITIME DAY TO YOUR COUNTRY IN 2022 - DEADLINE FOR THE SUBMISSION OF YOUR EVENTS: 31 JANUARY 2022

EMD 2022, the annual EU meeting point on maritime affairs and sustainable blue growth, and the place where ‘Ocean Leaders Meet’, will take place in Ravenna, Italy on 19 & 20 May 2022. As every year, this will not be the only action to celebrate our seas and oceans. EMD In My Country 2022 events will also take place all over Europe from 1 April till 31 October 2022. EMD / [Read more](#)

CONTRIBUTED ARTICLE

A DOZEN WAYS NOAA ADVANCED MARINE POLLUTION SCIENCE IN 2021- PART 1

An article by Megan Ewald, Office of Response and Restoration

To answer the question “How does pollution impact the ocean and what can we do about it?” NOAA experts often need to conduct research that advances our knowledge of marine pollution science.

Each year NOAA Office of Response and Restoration (OR&R) scientists collaborate with leading experts on topics like marine debris, environmental economics, endangered species, environmental chemistry, and many other subjects that intersect with pollution science.

All of these studies have different goals, but all advance OR&R’s ability to respond to, assess the impacts of, and restore the environment after oil spills and hazardous waste and marine debris pollution.

This blog highlights 12 scientific articles about research advancing pollution response and assessment published in Fiscal Year 2021.

1. Discovering How Microplastics Impact Freshwater Mussels



[“Microplastics in Invasive Freshwater Mussels \(*Dreissena* sp.\): Spatiotemporal Variation and Occurrence With Chemical Contaminants”](#) measured microplastics and chemical contaminants in the tissues of mussels found in the Milwaukee Harbor in Wisconsin.

The study harvested mussels from sites where wastewater effluent and urban rivers flow into Lake Michigan. The researchers found that there were more microplastics in the largest mussels at sites near wastewater facilities. However, they did not find this trend in smaller mussels or a link between chemical contaminants and microplastics in mussels. This research helps inform our understanding of how microplastics impact bottom-dwelling mussels in urban Great Lake ecosystems.

2. Studying Salmon Growth at Portland Harbor Superfund Site



[“Decreased Growth Rate Associated with Tissue Contaminants in Juvenile Chinook Salmon Out-Migrating through an Industrial Waterway”](#) was conducted as part of NOAA’s work on the Portland Harbor Superfund site in Oregon, where juvenile Chinook salmon migrate on-route from the rivers of their birth to the ocean.

Researchers found reduced growth rates associated with contaminant levels in fish tissues, especially polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs). The results of this research indicate that contamination in Portland Harbor impacts salmon growth, especially during the salmon's first year of life. This is important because salmon grow rapidly in the first year of life and growth is an indicator of its odds of survival and ability to eventually return to the Willamette River tributaries where they spawn.

3. Preparing for Arctic Oil Spill Response

The U.S. Coast Guard Cutter Healy breaks ice in Arctic waters. A ship like this would be the likely center of operations for an oil spill in this remote and harsh region.

[“Responder Needs Addressed by Arctic Maritime Oil Spill Modeling”](#) is part



a larger project funded by the Homeland Security's Arctic Domain Awareness Center and facilitated by the University of New Hampshire's Coastal Response Research Center.

A goal of the project is to prioritize new investments in model and tool development to improve response effectiveness in the Arctic. This journal article outlines responder needs during Arctic maritime spill response and provides solutions to communicating sources of uncertainty in model outputs using a Confidence Estimates of Oil Model Inputs and Outputs (CEOMIO) table. Having these resources available before an oil spill happens will be critical if a spill occurs in the remote and harsh Arctic Ocean.

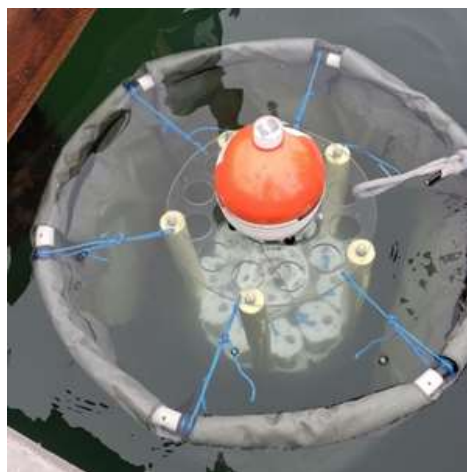
4. Investigating How Oil Toxicity Impacts Vertebrates



[“A review of the toxicology of oil in vertebrates: what we have learned following the Deepwater Horizon oil spill”](#) examines eight years of research conducted during and after the Deepwater Horizon oil spill and summarizes findings about the toxic impacts of oil on marine mammals, turtles, fish, and birds, as well as the results of observational studies on humans.

All of the species studied showed some consistent types of toxic responses when exposed to oil. Species suffered impaired stress responses and adrenal gland function, heart problems and abnormal heart development, impaired immune systems, damaged blood cells, problems moving, and cellular damage. This analysis will help responders better plan for, respond to, and hold polluters accountable for future oil spills.

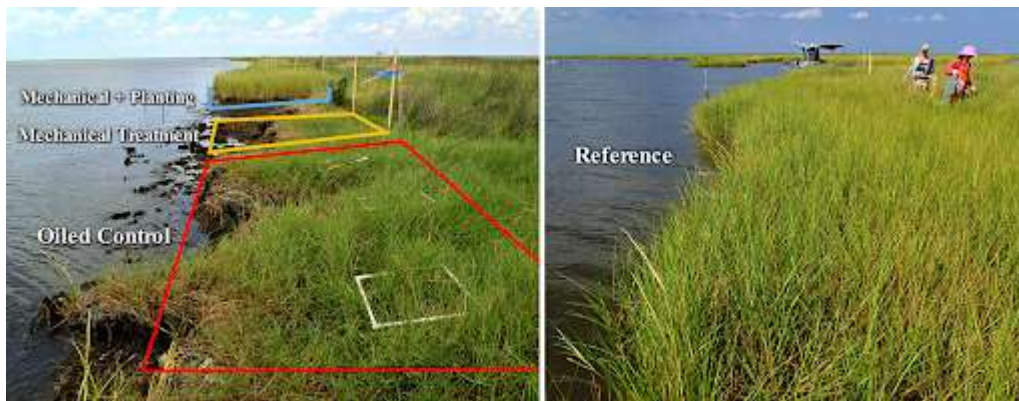
5. In-Situ Bioassays: Assessing Oil Spill Toxicity to Aquatic Life in the Field



[“Tracking and Assessing Oil Spill Toxicity to Aquatic Organisms: A Novel Approach”](#) chronicles testing of a new tool called a Drifting Exposure and Effects Assessment Ring (DEEAR) developed to drift for 8-48 hours and perform bioassays within oil spills—tests typically performed in the lab.

Small shrimp, larval fish, and fish eggs are contained within glass tubes that water, and oil from the environment are pumped through. Other sensors collect data on contaminant concentrations, water quality, and the DEEAR's trajectory as it drifts. After the DEEAR is retrieved those animals can be taken to the lab to study how the oil impacts their health over time. Not only does this research allow for more environmentally accurate bioassay studies, future advancements could allow scientists to monitor DEEAR data in real-time.

6. Improving Salt Marsh Recovery After an Oil Spill by Planting



“Planting after shoreline cleanup treatment improves salt marsh vegetation recovery following the Deepwater Horizon oil spill” examined recovery of salt marshes from oiling.

The Deepwater Horizon oil spill in 2010 resulted in areas of heavily impacted salt marshes. Researchers found that shoreline cleanup, coupled with replanting, reduced the oiling extent and enhanced marsh vegetation recovery as compared to sites with no shoreline treatment and sites with mechanical cleanup only. The authors recommended that vegetation replanting should be considered for implementation after intensive oil spill cleanup activities, particularly in areas where the majority of the vegetation has died back or otherwise been removed, erosion risk is high, and recovery may be delayed.

This article reprinted here with kind permission and thanks to NOAA OR&R. Part 2 will be in next week’s newsletter.

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

This is a subscription service. [Have a look to see examples of open tenders.](#)

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/td012022.htm> and USA Federal Contracts Update <https://clu-in.org/Federal-Contract-Opportunities> European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter. (Look in “Links for other publications” for the current issue of this publication)

JOB VACANCIES

UK: SCOTLAND – NRC – OIL SPILL RESPONSE SUPERINTENDENT

“To maintain and operate all company equipment in company locations and client specified sites, delivery training and support the wider international business. Primarily this is a position based in Oldmeldrum, Aberdeenshire, but expectation is 60% office based and 40% international travel based”.

For more info visit <https://spillcontrol.org/2013/02/04/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 frequently updated. ISCO depends on regular receipt of updated URL links for listed publications. If these are not received, relevant entries will be discontinued. Publishers are kindly requested to advise the editor john.mcmurtrie@spillcontrol.org if any links are not up-to-date. Readers wishing to recommend the addition of additional publications should contact the editor.

NEW PUBLICATIONS

CANADA: SHIP-SOURCE OIL POLLUTION FUND – ANNUAL REPORT 2020-2021

[Download the Administrator's Annual Report](#)

CHILE: MARINE EMERGENCIES REPORT FOR 2021

[Download the Armada de Chile Directmar's Annual Report](#)

INCIDENT REPORTS

USA: NOAA OR&R – SUMMARY OF INCIDENT RESPONSES FOR DECEMBER 2021

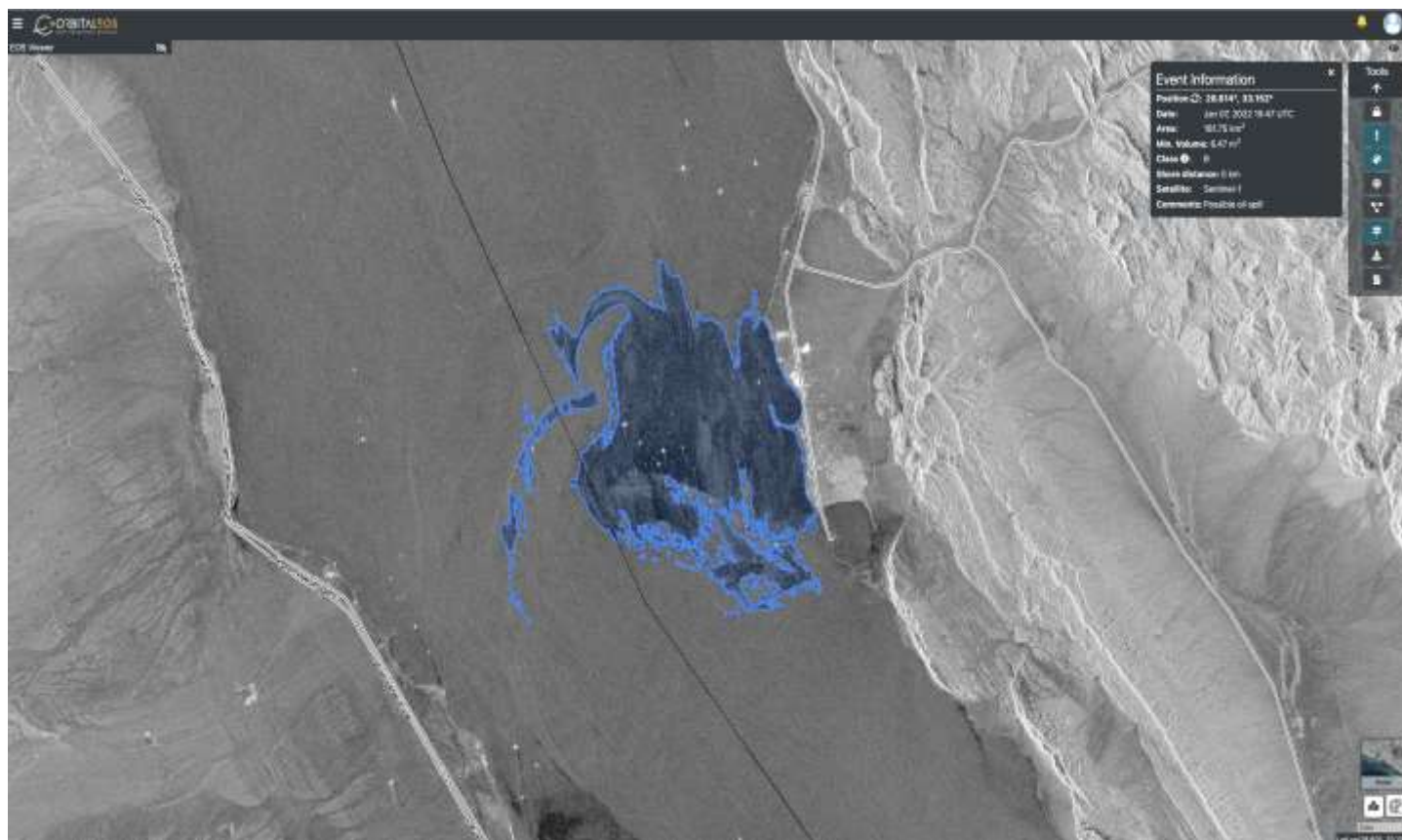
Every month our Emergency Response Division provides scientific expertise and services to the U.S. Coast Guard on everything from running oil spill trajectories to model where the spill may spread, to possible effects on wildlife and fisheries and estimates on how long the oil may stay in the environment.

This month OR&R responded to 11 incidents in December, including oil discharges, grounded vessels, and other pollution-related incidents. Here is the complete list of last month's incidents, click on the links to find out more:

- [Hoffman Construction/Coleman Dock Petroleum Spill](#)
- [Lake Union Red Dye Diesel Spill](#)
- [Sheen near Platform Holly](#)
- [Ammonium Nitrate Bruce Oakley Facility](#)
- [Newport Princess Sinking](#)
- [West Basin Transient Vessel Sinking](#)
- [Black Oil Slick](#)
- [FV "Native Daughter" Red Dye Diesel Spill](#)
- [NABSD Day Tank Leak](#)
- [USS BULKELEY Diesel Fuel Discharge, Naval Station Norfolk, VA](#)
- [Water Supply Contamination](#)
- [Tarballs off Bolsa Chica \(Pipeline 0919 Incident\)](#)

For more info and photographs, please visit https://blog.response.restoration.noaa.gov/incident-responses-december-2021?utm_medium=email&utm_source=GovDelivery

GULF OF SUEZ: REPORT RECEIVED FROM ORBITAL EOS



January 11 – “My name is Juan Peña, CEO of Orbital EOS, a proud member of ISCO. Answering your invitation to share news from around the world, I think it is relevant to mention that last week we detected a significant potential oil spill in the Suez Gulf. The event is covering an area of more than 160 km² and it affected the coastline. This spill was detected using advanced satellite imagery analytics, as it is one of our core skills at Orbital EOS. Happy to provide more info if needed”. Orbital EOS juan@orbitaleos.com <https://www.orbitaleos.com>

MID-ATLANTIC: ONE BOXSHIP LOSES CONTAINERS IN THE MID-ATLANTIC

Madrid Bridge (file image courtesy Rab Lawrence / CC BY 2.0)

January 11 - Ocean Network Express (ONE) is reporting that one of its Japanese registered container ships has suffered a container collapse during an Atlantic transit. The 146,778 dwt containership Madrid Bridge departed Asia early in December and was following a route through the Suez Canal and transiting the Mediterranean heading toward New York as its first port of call on the U.S. East Coast. The incident took place last Friday, January 7.

Cargo claims consultants WK Webster is advising clients, "It is not currently clear how extensive the collapse of stow is but it is reported that the vessel lost at least 30 containers overboard. We are currently seeking to establish the extent of the losses overboard and damage to cargo." The Maritime Executive / [Read more](#)

January 13 - Previously, ONE said that the vessel experienced a stack collapse on January 7 while in the mid-Atlantic. The current advisory reports that they estimated that approximately 60 containers were lost overboard and that an additional 80 were damaged. They are warning that the numbers may be updated after further investigations. The Maritime Executive / [Read more](#)

USA: LOUISIANA - PIPELINE SPILLS OVER 300,000 GALLONS OF DIESEL NEAR NEW ORLEANS

January 13 - A severely corroded pipeline ruptured and spilled more than 300,000 gallons (1.1 million liters) of diesel fuel just outside New Orleans after the operator delayed needed repairs, according to federal records.

Most of the fuel drained into two artificial ponds called borrow pits" and thousands of fish, birds and other animals were killed, state and local officials said Wednesday. The spill also contaminated soil, according to state and federal officials.

The pipeline's owner said 315,000 gallons (1.2 million gallons) of fuel with some water mixed in had been skimmed and recovered, primarily from the ponds. Cleanup work is ongoing. Business Standard / [Read more](#)

SOUTH AFRICA: NS QINGDAO'S REACTIVE CARGO IS BEING DUMPED INTO THE SEA

January 13 - In a blog post published Wednesday, the South African Maritime Safety Authority announced that there has been a change of plans for the disposal of the "problematic water-reactive cargo" aboard the bulker NS Qingdao. Instead of lightering, chemical neutralization and shoreside burial, it is being dumped into the sea.

In October, the NS Qingdao was ordered away from the Port of Durban after she began to emit large quantities of "toxic fumes" from her holds. Samsa ordered the vessel to depart and head for a safe anchorage, and under escort, she headed for St. Helena Bay - some 850 nautical miles away on the Atlantic coast of South Africa - so that she could ventilate her hatches offshore. She carried "a full team of salvors, chemical experts, hazmat teams and other emergency personnel on board" to manage the risk, according to SAMSA COO Capt. Vernon Keller.

At the time, Capt. Keller said that the salvage plan called for the vessel to discharge her reactive cargo into skips. It would then be chemically neutralized and landed ashore at an approved dumping site for final disposal.

INCIDENT REPORTS (CONTINUED)

Under the new salvage plan, 1,500 tonnes of the ship's cargo are being dumped into the sea. A trackhoe has been delivered to the ship and lowered into the hold to facilitate removal, and the work is already well under way.



Photo: A trackhoe excavates the residue of NS Qingdao's reactive cargo (SAMSA / Holling)

In an update Thursday, SAMSA said that it has working round the clock to manage the situation, which is made particularly challenging by the nature of the cargo. It is not just one bulk commodity: The ship is carrying sodium metabisulphite; magnesium nitrate hexahydrate; caustic calcined magnesite; electrode paste (a calcined mixture of asphalt and coal); monoammonium phosphate; ferrous sulphate monohydrate; zinc sulphate monohydrate; dicalcium phosphate; sodium sulphite (anhydrous); and calcium chloride. With the exception of electrode paste, which is used in steelmaking, most of these cargoes are commonly used as fertilizers and industrial reagents. The Maritime Executive / [Read more](#)

UK: SCOTLAND: POLLUTION EVENT' INVESTIGATED AFTER ANIMALS SEEN COATED IN OIL



A swan affected by a suspected pollution event on the River Esk, Musselburgh. Photo credit Patricia Enot

INCIDENT REPORTS (CONTINUED)

January 15 - A spill of what appears to be fuel in the River Esk in Musselburgh was reported to the Scottish Environment Protection Agency and the local authority on Friday.

One swan has reportedly already died with several others seized by officers from the Scottish Society for Prevention of Cruelty to Animals (SSPCA). The contamination appears to be affecting a huge stretch of the river from Old Craighall near the A1 down to the Firth of Forth where eyewitnesses described seeing an oil slick drifting out to sea. STV News / [Read more](#)

USA: PHILADELPHIA - THOUSANDS OF GALLONS OF TOXIC PHENOL REPORTEDLY SPILLED THIS WEEK AT CHEMICAL PLANT

January 15 - A worker failed to shut off a valve Thursday at the AdvanSix plant in Philadelphia and up to 2,000 gallons of phenol spilled, with some possibly entering the sewer system, according to a police report. The plant is located just off I-95 and a channel that leads to the Delaware River; however, authorities said none of the chemical found its way to the river. Phys Org / [Read more](#)

FOR YOUR INFORMATION

NEWSLETTER POLICY ON HANDLING OF PRESS RELEASES

1. The Editor has sole discretion over what is accepted for publication
2. The Editor reserves the right to edit press releases
3. Information in press releases must be factual and free from sales hype and exaggerated claims
4. Members of ISCO are given priority over non-members in allocation of editorial space.
5. Subject matter of press releases must be relevant to the interests of the spill response community
6. Space availability for printing press releases is limited and they should be kept short
7. If a press release is too long only part of it will be printed but a link can be included for downloading its entirety
8. Links for downloading additional information or viewing video material can be included
9. Depending on space availability press releases may be included in the next issue or held over for a future issue
10. The placing of press releases is usually allocated within sections as follows –

PEOPLE IN THE NEWS – Announcements of new appointments, retirements, honours, awards, etc. relating to senior people in a company or organisation. Photo/s usually included.

SCIENCE & TECHNOLOGY – Reserved for technical content relating to new developments that represent a significant technological advance – photos, diagrams, etc. should be included.

CASE HISTORIES – Welcomed for publication subject to educational content criteria. In publishing case histories the objective is to pass on experience and lessons learned that will be of interest to other professionals in our community. There is a benefit for contributors because publication of case histories raises the profile of the company concerned.

NEW PRODUCTS & SERVICES – Announcement of the launch of a completely new product or service. Photo/s usually provided.

COMPANY NEWS - Change of address, phone numbers, etc.; Award of a major new contract, Other news of significance concerning the company or organisation. ISCO Corporate Members are given priority.

EQUIPMENT FOR SALE - For corporate members only – to assist in disposal of equipment that is surplus to requirements.

MEMBER PROFILES IN THE ISCO NEWSLETTER – For corporate members only – For a contribution of £185 to ISCO funds publication of a one page company profile. Restricted to one profile a year only per member. Only one profile will be printed in any issue of the newsletter.

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