

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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ISCO is managed by an EXECUTIVE

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INTERNATIONAL NEWS

CLICK ON THE BANNER BELOW FOR MORE INFORMATION



ISCO REACHES OUT TO STUDENTS ALL OVER THE WORLD

ISCO STUDENTS FORUM – LAUNCH OF WHATSAPP GROUP

Friday 26th November 2021 saw the launch of the ISCO Student Group Forum on WhatsApp.

The forum is being formed by the students to enable them to communicate with, and exchange ideas with each other on their own research programmes.

ISCO is providing a support link between them and the ISCO membership to allow them to access the vast experience of our members and hopefully to encourage the membership to support and mentor the students during their studies.

Neil Marson Secretary-General of ISCO launched the forum. In doing so he welcomed all the students from the various locations around the world for taking the time to join the forum. He told them that they are our future environmental champions who will shape the way that the industry operates and be influencers in the way we all think.

The students took the opportunity to introduce themselves and give a summary of their work, which was wide ranging and included Optimisation of Oil Spill Response Vessels, Remediation of Oil Spill using Plants and the Long Term Effects of Oil Weathering

It was agreed that through the forum they would exchange ideas and suggestions about scientific articles related to marine pollution; carry out a review of papers submitted by fellow students; in collaboration with each other produce an article each month for publishing within the ISCO Newsletter.

It is hoped that the group will increase in membership so that the mutual benefits of the being part of the group is maximised, with the ISCO membership supporting them in developing their chosen careers, ensuring that the expertise and skills required to meet the future demands are developed on a solid foundation.

Any student wishing to join the WhatsApp Group can do so by linking into the ISCO STUDENT GROUP on WhatsApp

ISCO's Student Group already has members in Canada, Croatia, India, Nigeria, UK and USA.

Read more about the ISCO Student Group on Pages 6-7.

ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

Carlos Sagrera	Región Iberoamericana
Matthew Sommerville	UK London
John Noble	UK London & South'ton
Wue Yu	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/>

AND ISCO'S FACEBOOK GROUP



Click on the link -

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

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](#)

INTERNATIONAL SPILL CONTROL ORGANISATION NEWS

ISCO AGM 2021 WILL BE ON 9th DECEMBER 2021

ISCO's 2021 AGM will be a virtual meeting and will be held on 9th December 2021. The meeting will be at 3 pm EST / 8 pm GMT or the equivalent time in your own time zone.

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

Meeting ID: 522 055 0000

The Agenda, Meeting Papers and Voting Form were sent out by email to all Members on 9th November. Any Member who has not received these should advise ISCO at info@spillcontrol.org as soon as possible.

NEXT ISCO MONTHLY ZOOM MEETING

As we are holding the ISCO AGM in December the next of our regular monthly meetings will be on Thursday 27th January 2022 at 3 pm EST. The link for joining the meeting will be advised nearer the time.

NEWS REPORTS FROM AROUND THE WORLD

BRAZIL: IBAMA HOLDS II FORUM OF DEGRADED AREAS RECOVERY PROGRAMS (PRAD) IN THE FEDERAL ENVIRONMENTAL LICENSING

November 24 - The second edition of the Forum of Degraded Area Recovery Programs (PRAD) in federal environmental licensing (LAF) will be virtual. The event, promoted by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA), will be held on December 1 and 2 with transmission by Microsoft Teams.

The objective of the meeting is to open a space for dialogue on the techniques and results of PRAD developed in projects licensed by IBAMA for the dissemination of good practices. IBAMA / [Read more](#)

CANADA: ARCTICNET VIRTUAL ANNUAL SCIENTIFIC MEETING - DECEMBER 6-10, 2021

Canada's Ship-source Oil Pollution Fund's legal counsel, in collaboration with a representative from Transport Canada, will be delivering a presentation in the session: "NPD50 – Maritime shipping in the Arctic: Observations, management, and adaptation".

The presentation called "Who Pays for an Oil Spill? Compensation in the Arctic" will cover the Fund's claims portfolio for incidents in the Arctic.

Over the past 32 years, while more than a dozen incidents were monitored in the Arctic, the Fund only received three claims. Less than \$92,000 was paid out to claimants, representing 0.35% of the total amount paid from the Fund (over \$26 million).

For more information: <https://arcticnet.swoogo.com/2021/1188342?lang=en>

CROATIA: WORKSHOP "RAISING AWARENESS ON POLLUTION IN THE ADRIATIC SEA" FOR CIVIL PROTECTION

November 22 - For members of the Croatian Association for the Promotion of Values and Techniques of Civil Protection "eRlpio", ATRAC organized a work cafe workshop on Saturday, November 20, 2021, where we held a presentation on "Raising awareness on the pollution in the Adriatic Sea" within the FIRESPIFF project.

The workshop was attended by 20 members of the Civil Protection who showed great interest in future active participation in the protection of the marine environment and especially in the cleaning of the shoreline.

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Group Photo – Workshop in Croatia

<http://atrac.hr/en/workshop-raising-awareness-on-pollution-in-the-adriatic-sea-for-civil-protection/>

DENMARK: VOLUNTEERS GET 1.6 MILLION TO REMOVE PLASTIC FROM DANISH BEACHES

November 26 - The Danish Environmental Protection Agency has awarded DKK 1.6 million to 6 projects to remove plastic and other waste from danish beaches.

Bottles, fishing nets, buckets and bags. There are many different things that are either thrown or that wash up on the Danish beaches. A large part is plastic, and fortunately many volunteers make a great effort to clean up – they now get help again from the Environmental Protection Agency's beach cleanup pool. The Danish Environmental Protection Agency / [Read more](#)

INDIA: ZHEJIANG UNIVERSITY: ZJU AND USYD SIGN MOU TO LAUNCH A JOINT LAB ON SUSTAINABLE ENVIRONMENT

November 22 - On November 4, Zhejiang University and the University of Sydney signed a Memorandum of Understanding online to establish a joint lab on sustainable environment.

Prof. CHEN Baoliang, dean of ZJU's College of Environmental and Resource Sciences and executive dean of ZJU's Academy of Ecological Civilization, and Prof. Willy Zwaenepoel, dean of USyd's Faculty of Engineering, represented each party to sign the agreement. The signing ceremony was also joined by Prof. Katherine Belov, USyd's pro-vice-chancellor, Prof. Li Min, director of ZJU's Office of Global Engagement, and other representatives from each party.

Both universities have enjoyed a long-standing partnership with a joint seed funding set up in 2018 to promote collaborative research. The launch of the joint lab will offer more opportunities for multidisciplinary collaborations and find solutions for common challenges to sustainable development, including environmental pollution remediation, ecosystem restoration, renewable and clean energy, big data science, etc. India Education Diary / [Read more](#)

MAURITIUS: WAKASHIO'S OWNER LIMITS LIABILITY OVER GROUNDING AS WRECK REMOVAL CONTINUES

November 22 - Okiyo Maritime Corp, the Japanese company which owns the MV Wakashio, filed a motion before the Supreme Court

of Mauritius last week to limit the claims arising from the accident at Pointe d'Esny to 719.6 million rupees, the equivalent of \$16.6 million.

Chartered by Mitsui O.S.K Lines (MOL), the 203,130-ton and 300-meter-long ore carrier was sailing from China for Brazil when it veered off course while trying to pick up the Indian Ocean's island's cell phone network on the night of Saturday, July 25, 2020. It ended up on the coral reefs in the southeast of the island.

A few weeks later, one of the ship's tanks ruptured due to the swell, spilling 1,000 tons of heavy oil into the lagoon and causing the worst ecological disaster Mauritius has ever witnessed. Subsidiary of Nagashiki Shipping, Okiyo Maritime Corp is pleading for the creation of a \$16.6 million's fund to pay compensation to the State of Mauritius, recalling that it ratified the Convention on Limitation of Liability for Maritime Claims (LLMC) 19 years ago. The Japanese company's claim will be debated on January 10, 2022, State Counsels having to analyze the affidavit sworn by Okiyo Maritime Corp.

In the meantime, the dismantling of what remains of the stern started in early November, after months of stand-by due to bad weather conditions. It was stopped again a few days ago because of unfavorable weather. Some 2,500 tons of metal parts, including the main engine, were removed by the team of Chinese companies Lianyungang Dali Underwater Engineering and Hong Kong Lidada Ocean Engineering. A small amount of fuel oil leaked into the lagoon on November 3rd, angering locals, but it was quickly cleaned up by the Greek company Polyeco, which recovered 530 liters at Pointe-d'Esny and Rivière-des-Créoles. Part of the keel remains to be removed, but all depend on weather conditions. gCaptain / [Read more](#)

NEW ZEALAND: MARITIME NZ: ENHANCING OUR SUBMARINE CABLE AND PIPELINE PROTECTION AREAS GUIDANCE

November 23 - Today, Maritime NZ has released enhanced guidance on its website to ensure everyone enjoying water activities is aware of the submarine cable and pipeline protection areas (CPAs). The guidance explains the importance of ensuring submarine cables and pipelines are not damaged, for example, when anchoring or fishing, and how to make an application under the Submarine Cables and Pipelines Protection Act 1996 (SCAPPA).

"Generally, all fishing and anchoring activities are illegal within submarine cable and pipeline protection areas," said Kenny Crawford, Deputy Director Maritime Systems Assurance at Maritime NZ

"If a net, line, rope, chain or any other thing used for fishing or anchoring is observed being towed by, or operated or suspended from, a vessel of any size in a protected area, it will be presumed that fishing or anchoring is being conducted. Failure to comply with the law may lead to significant fines and forfeiture of vessel." Maritime NZ / [Read more](#)

NICARAGUA RATIFIES UN REGIONAL AGREEMENT ON MARINE BIODIVERSITY

November 22 - The United Nations Environment Programme Cartagena Convention Secretariat, based in Kingston, Jamaica, is pleased to announce that the Government of the Republic of Nicaragua is now the 18th country in the Wider Caribbean Region (WCR) to ratify the Cartagena Convention's Protocol Concerning Specially Protected Areas and Wildlife (SPAW). The Government of Nicaragua deposited its instrument of ratification with the Government of Colombia (Depositary of the Convention and its Protocols) on 4th May 2021. UNEP / [Read more](#)

PHILIPPINES: SUBIC AUTHORITIES TRAIN FOR DREADED OIL SPILL SCENARIO

November 22 - The Subic Bay Metropolitan Authority (SBMA), along with stakeholders in the maritime sector, conducted an Oil Spill Simulation Exercise (Simex) off Boton Wharf on Friday, according to a Sun Star Pampanga report.

The report quoted Diego Aviles of the SBMA Seaport Department as saying the exercise was in line with SBMA's thrust to improve its competency to respond in the event of an oil spill, as well as develop better coordination with concerned stakeholders. He said Pure Petroleum Corporation and the Subic Seaport Terminal Inc., including the motor tanker MT WRC1, participated in the simulation. Politiko Central Luzon / [Read more](#)

TUNISIA: MOIG AND ATRAC - TRAINING COURSE ON RESPONSE TO MARINE OIL SPILLS - IMO OPRC LEVEL 2

November 25 - 16-18 November 2021, the training course on Response to Marine Oil Spills - IMO OPRC Level 2 was held at the Russelior Hotel in South Hammamet-Tunisia; in cooperation with the Adriatic Training and Research Centre for Accidental Marine Pollution Preparedness and Response

The training course was animated by Mr. Vedran Martinic Director and Ms. Anja Pilepic; Marine Environment Protection Associate from ATRAC and Mr. Kerem Kemerli; General Manager of MEKE MARINE.

The event gathered 29 delegates from MOIG members, relevant Tunisian stakeholders and oil and gas Libyan companies such as: ANPE, Azzawia Oil Refining Company, Brega, Petroleum Marketing Company, ETAP, General Secretariat of Marine Affairs, Mabruk

Oil Operations, Mellitah Oil and Gas, Ministry of National Defence, Ministry of Oil and Gas, National Oil Corporation, OMMP, ONPC, SEREPT, SAROST, TANKMED, TOPIC and TRAPSA.

The main objectives of this training course were to prepare Supervisors and On-Scene Commanders to coordinate and manage the response to an oil spill. The training also aims at informing senior officials, designated to act as Supervisors/On-Scene Commanders during spill response operations, on the responsibilities of the members of an oil spill response organization and on how to effectively respond to an oil spill through the deployment of equipment and resources at regional area or National levels.



The first two days training course included oral presentations hinged around the following topics : An overview of spill response, examples of specific incidents and of good spill response practices, contingency planning, response management and organization, existing regional and global regimes for assistance in responding to major marine pollution emergencies, oil spill crisis management, properties, behaviour and fate of an oil spill, environmental and economic impact of oil spill, spill assessment, operations planning, oil spill response options, health and safety including personal protection, containment and recovery of oil, use of dispersants, shoreline clean-up - principles of shoreline clean-up, media relations, termination of response and post-incident debriefing.

The third day was dedicated to table-top spill response exercise including an introduction of the oil spill scenario, the preparation of exercise reports and debriefings. The simulated scenario consisted of an explosion of one tank occurring in tanker ship in the Offshore Gulf of Tunis-Tunisia.

The quantity of the spill was estimated to 40 Tonnes of crude oil. Participants have been divided in two groups to discuss the concrete actions that would be needed to contain and recover quickly the oil spill.

We were very delighted by the rewarding working atmosphere, MOIG members, representatives from Libyan oil and gas companies and relevant Tunisian stakeholders worked together, shared their views and applied what they have learned from IMO OPRC Level 2 training course during the table-top oil spill exercise.

At the end of the event, certificates of attendance were awarded to participants by Mr. Vedran Martinic and the Management Committee Members composed of MM. Mahmoud Kamour, Malek Kallel and Hatem Ben Khelil.

The Management Committee Members would like to thank Mr. Vedran Martinic, Ms. Anja Pilepic and Mr. Kerem Kemerli for the high quality training course provided to participants and greatly appreciated their professionalism and expertise, thereby contributing to the success of this event. Thus, will pave the way for further cooperation on oil spill preparedness and response between ATRAC and MOIG. <http://medoilgroup.org/>

UK: MARINE POLLUTION (MARPOL) ANNEX II SURVEYORS

November 26 – Updated Guidance concerning the international convention for the prevention of pollution from ships (MARPOL) surveyors.

The International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) Annex II, Regulation 16 requires the government of each party within the Convention to appoint or authorise surveyors for the purposes of exercising control procedures developed by the International Maritime Organisation. The Merchant Shipping (Prevention of Pollution from Noxious Liquid Substances in Bulk) Regulations 2018 (Statutory Instrument (S.I.) 2018/68, as amended by S.I. 2020/496 and S.I. 2021/818) implements Annex II of MARPOL. UK MCA / [Read more](#)

USA: EPA VOWS TO CLEAN UP HOUSTON NEIGHBORHOODS PLAGUED WITH POLLUTION

November 19 - Residents in Houston's Fifth Ward and Kashmere Gardens are asking the EPA to velocity up the clean-up of a Union Pacific website. HOUSTON — The head of the Environmental Protection Agency is vowing to step in, if vital, to velocity up clean-up of a former creosote website close to houses in Fifth Ward and Kashmere Gardens.

Administrator Michael Regan toured these northeast Houston neighborhoods on Friday through the closing leg of his week-long "Journey to Justice" tour, which additionally included stops in Louisiana and Mississippi. "The goal is definitely not a photo-op for EPA, but it is an opportunity to elevate environmental justice on the national stage," Regan instructed group members throughout a roundtable Friday morning at Fifth Ward Missionary Baptist Church. News Chant / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

November 21 – Please click on the links below to download and read the latest News Reports from NOAA OR&R.

[Impacts and Recovery of Salt Marshes after Oiling](#)

OR&R biologist Nicolle Rutherford was among the authors of a paper recently accepted for publication: "Meta-analysis of salt marsh vegetation impacts and recovery: a synthesis following the Deepwater Horizon oil spill."

[Marine Debris Program Coordinates Virtual Bi-Annual California Ocean Litter Strategy Webinar](#)

On November 10, NOAA's Marine Debris Program (MDP) coordinated and presented at the virtual bi-annual California Ocean Litter Strategy (CA OLS) webinar. The webinar brought together over 45 partners across the state and included a diverse set of sectors including state agencies, nonprofits, private sector, and academia.

[Marine Oil Snow, and Other Complications of Organic Matter](#)

So, what is marine snow? Can we even see it? Possibly, but in reality, marine snow are extremely small particles that float slowly from the surface of a body of water to the floor, found both in bodies of fresh and salt water. On November 18, Dr. Uta Passow, an expert on this subject, presented on this as part of the OR&R You Don't Know What You Don't Know Lecture Series.

If you missed this month's episode of You Don't Know What You Don't Know, don't worry, it was recorded! The password to view the episode is: Knowledge <https://noaaorr.adobeconnect.com/pwnnpzmg46fg/>

USA: BIDEN EPA DEVELOPS NEW PLAYBOOK FOR ADDRESSING PFAS

November 22 - On October 18, 2021, the US Environmental Protection Agency (EPA) announced its PFAS Strategic Roadmap (Roadmap or Plan), the agency's new approach to comprehensively addressing the threat to public health and the environment from per- and polyfluoroalkyl substances (PFAS). In issuing the Roadmap, EPA has segued from the prior administration's PFAS Action Plan to implementing the agency's new PFAS playbook developed since the Biden administration came into office.

While the Roadmap describes a potentially sweeping array of new studies, test protocols, regulations, and other proactive measures, many of the most critical ones are not expected to be completed or come to fruition before mid-2022, continuing the pattern of the federal government's slower pace than a number of states in addressing PFAS risks. J D Supra / [Read more](#)

ISCO STUDENTS, TRAINEES & APPRENTICES CORRESPONDENCE PAGE

ISCO OFFERS A FREE TRIAL MEMBERSHIP FOR STUDENTS, TRAINEES AND APPRENTICES

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

- **A NEW WHATSAPP GROUP HAS BEEN CREATED FOR STUDENT MEMBERS**

Kayode Peter Balogun advises "A student WhatsApp group has been created. Here is the link to add other students: Follow this link to join my WhatsApp group: <https://chat.whatsapp.com/KMxdW7IEal79namyNibVqq>"

- **CLARIFICATION ON DURATION OF FREE PERIOD OF MEMBERSHIP FOR STUDENTS, TRAINEES AND APPRENTICES**

Until recently there has been some confusion over the length of the free trial membership provided by ISCO for student members. The ISCO Secretariat is pleased to confirm that it is no longer restricted to only one year. **ISCO provides Student Membership free of charge during the period of the student's studies.** More detailed information about Student Membership will soon be available as an outcome of work currently being done on the revision of ISCO's rules and regulations.

Members who are students, trainees or apprentices are invited to send in their profiles, a photo and share news of their activities for sharing information and possibilities for ideas-exchange and co-operation.

INTRODUCING STUDENT MEMBER MARKO DORDEVIC



Marko Dordevic is studying at the Faculty of Maritime Studies, University of Rijeka in Croatia for a Postgraduate Doctorate (Ph.D.) His program is in "Maritime Studies" with his module/area of study is in Marine and Coastal Protection.

Marko writes "I completed a master's degree at the Faculty of Maritime Studies, University of Rijeka, majoring in Nautical Studies and Maritime Transport Technology. I am currently in doctoral studies, Marine and Coastal Protection module.

So far, I have published two scientific research papers entitled: Oil Pollution of the Mediterranean as a Result of Maritime Accidents; in the International Journal of Maritime Science & Technology "Our Sea." Another scientific research paper is entitled: The Presence and Danger of Microplastic in the Oceans; in the multidisciplinary scientific journal "Maritime."

I have been employed by ATRAC for three years as a Marine Environment Protection Associate. At Atrac, I am involved in three projects called: FIRESPELL, PEPSEA, and CASCADE. Furthermore, I also deal with specialized equipment for responding to accidental marine pollution, such as booms, skimmers, and specialized ships for collecting pollution from the sea surface.

My narrow expertise is the risk assessment of sea pollution with oils. I also participate in drafting or supplementing National Marine Pollution Plans. Furthermore, I participate in numerous exercises and training in the Adriatic Sea and the Mediterranean.

I participate in the development of manuals, education related to the pollution of rivers and lakes. My goal is to combine the knowledge I acquire in the industry with scientific research skills to preserve the sustainable development of maritime affairs and preserve the marine environment".

Please note that 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 Dagleish (VP Membership) can be reached at mrydetroit@aol.com.

For your interest – US EPA Opens Competition for 2022 President's Student and Teacher Environmental Awards – For details, please visit <https://www.epa.gov/newsreleases/epa-opens-competition-2022-presidents-student-and-teacher-environmental-awards>

We will do our best to alert you about things that may be of interest to you and ask that you reciprocate by sending me info on events, opportunities, etc. that may be of interest to others and can be shared on this page. John.mcmurtrie@spillcontrol.org

TECHNICAL SUPPORT

DISASTER ZONE PODCAST: PROTECTING PETS FROM DISASTERS

Disasters impact people and families, and part of those families today are the pets that live with us in our homes. This *Disaster Zone* podcast is all about "[Protecting Pets from Disasters](#)."

Agencies need to plan for people who own pets. We have seen that people with pets behave differently in a disaster. Helping people prepare to take care of their pets in disasters can be critical to helping protect their owners as well.

Disaster Zone by Eric Holdeman is dedicated to sharing information about the world of emergency management and homeland security. [Listen to the Disaster Zone Podcast here](#). Government Technology / [Read more](#)

THE CRITICAL NEED FOR INTEROPERABILITY IN EMERGENCY RESPONSE

Interoperability delivers any-to-any communications virtually anytime. Network interoperability should be able to improve agency collaboration by enabling first responders to communicate using virtually any media, on any device, on any network, at virtually any time—especially during emergencies. The widescale solution will help public safety, school and private security personnel overcome communication silos by sharing audio, video and data in near real time. In addition, such a solution would include the ability to turn interoperability on or off, so responders and public safety agencies can better control communications. By doing so, first responders will be able to approve or deny access to determine who can join the call to effectively coordinate their on-scene response. Media Republic / [Read more](#)

RESPONDING TO HYDROFLUORIC ACID EXPOSURE

An article by Dr Nigel Blumire, Training Product Manager, NCEC, Hazardous Materials Commission Secretary, International Association of Fire and Rescue Services (CTIF).

Hydrofluoric acid forms when hydrogen fluoride, a colourless gas, is dissolved in water. Hydrofluoric acid and hydrogen fluoride have a reputation of being among the most feared chemicals that responders can encounter during incidents involving hazardous materials. While exposure can have serious consequences, responders can protect themselves and help casualties survive serious exposures as long as they understand the properties of the chemicals.

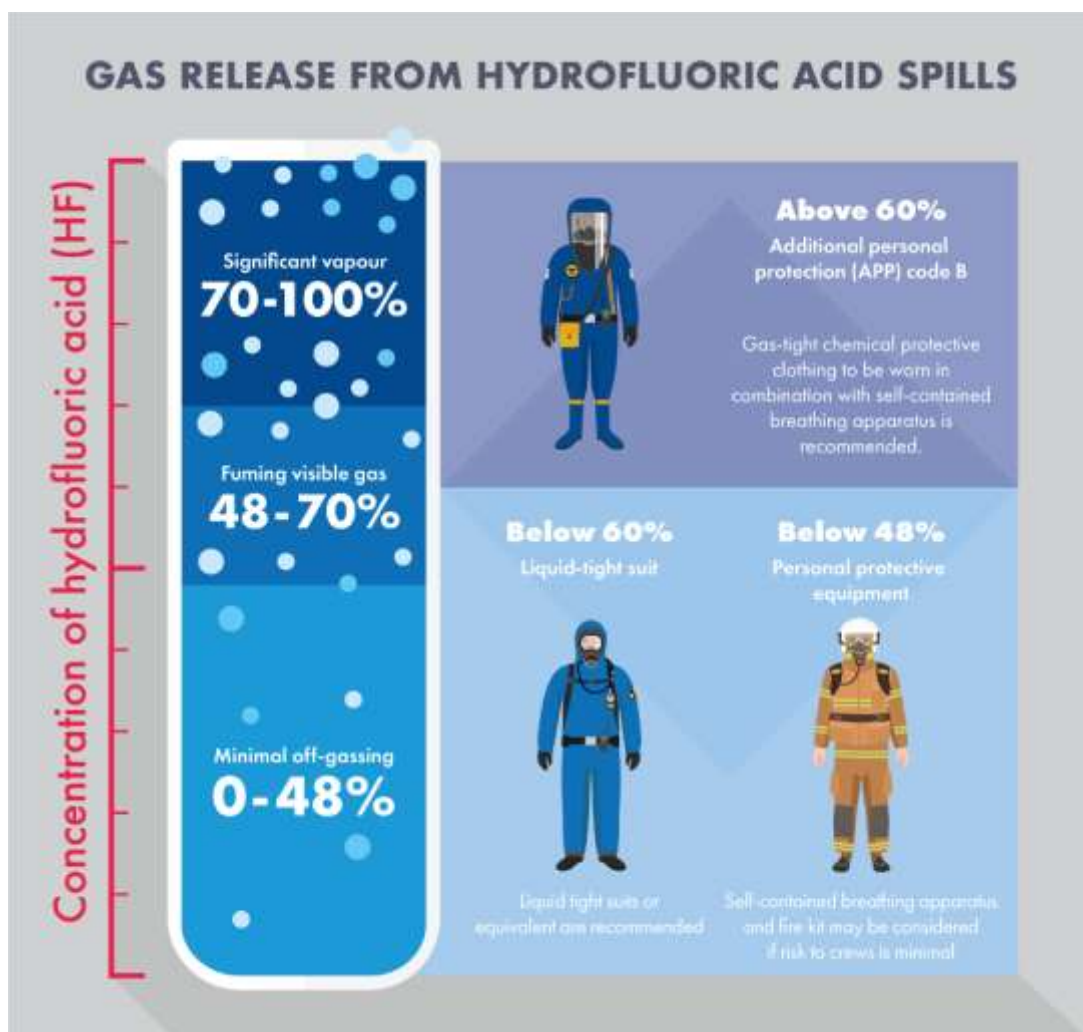
Hydrofluoric acid

Hydrofluoric acid is toxic, corrosive and burns to the skin caused by exposure can be life-threatening. Fortunately, hydrofluoric acid's dangers are very well understood. Specialist decontamination and antidote kits are available, and responders can take simple measures that will drastically improve a casualty's chance of survival.

The most important factor in surviving serious exposures is acting quickly. Casualties must be decontaminated as quickly as possible to prevent the hydrofluoric acid from penetrating their skin and an antidote should be applied if this is available. Transferring casualties to a medical facility, where they can receive the necessary support, must be a high priority. With rapid action, casualties can make a full recovery from very severe exposures.

Hydrogen fluoride

Incidents involving hydrogen fluoride are generally on a small scale, but large-scale incidents have occurred. In 2012, between 8 and 12 tonnes of hydrogen fluoride was accidentally released from a portable tank at the Hube Global plant in South Korea. Over 12,000 people were affected, many of them were treated in temporary field hospitals. Portable tanks of hydrogen fluoride, similar to the one at Hube Global, are encountered in many places so, responders need to understand hydrogen fluoride's properties and be prepared to deal with potentially high-consequence incidents.



CONTRIBUTED ARTICLE (CONTINUED)

When dealing with an incident involving hydrofluoric acid, it is vital to know the concentration of the spill. For concentrations below 48%, breathing apparatus and appropriate personal protective equipment would be suggested although these recommendations do depend on the situation and amount involved. For concentrations above 48%, it is suggested that gas-tight or liquid-tight suits be worn to protect emergency response teams. As the symptoms of exposure to hydrofluoric acid can be delayed up to 24 hours (depending on concentration), selecting and wearing the correct type of personal protective equipment is vital to ensure that the risk of exposure is minimised. Furthermore, exposure to hydrofluoric acid may result in nerve damage so those affected may not feel any pain.



Be prepared

NCEC recognises the importance of chemical safety training, which is why our training platform, Hazmat Academy, has been established. It provides training for public and private-sector organisations in safe, effective and proportionate response for incidents involving hazardous materials. NCEC runs many courses on chemical use and safety, and has designed a module specifically on hydrogen fluoride safety that covers:

- Physical and chemical properties.
- Hazardous nature and effects.
- Routes of exposure.
- First aid response and treatment methods.
- Exposure prevention.
- Waste disposal.

Visit the-ncec.com/ncec-training to learn more about the course. www.the-ncec.com/ncec-training ncec@ricardo.com

TRAINING COURSES

USEFUL LINKS

- AUSTRALIA – AMOSC
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- FRANCE - CEDRE - Click on these links [training catalogue](#) and [2021 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

TRAINING COURSES (CONTINUED)

REMPEC ONLINE WORKSHOP ON THE COMMON STANDARDS AND GUIDANCE ON THE DISPOSAL OF OIL AND OILY MIXTURES AND THE USE AND DISPOSAL OF DRILLING FLUIDS AND CUTTINGS (DECISION IG. 24/9 ANNEX A)

The online training workshop on the *Common Standards and Guidance on the Disposal of Oil and Oily Mixtures and the Use and Disposal of Drilling Fluids and Cuttings* (Decision IG. 24/9 Annex a) will take place on 30 November 2021. For more info see <https://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](#)

UPCOMING EVENTS

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

Recently added events include – Blue Invest Africa (Seychelles); Interspill Conference & Exhibition (Amsterdam); Supporting UN Sustainable Development Goals with level 1 telephone emergency response best practice; ArcticNet Annual Scientific Meeting

UPCOMING WEBINARS

TO VIEW UPCOMING WEBINARS PLEASE CLICK ON <https://spillcontrol.org/upcoming-webinars/>

To see ALL of the posted webinars you may need to click on “LOAD MORE” at the foot of the opened “upcoming webinars” page.

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

Recently added webinars include – Dec 14 - Secondary Containment Solutions for Renewable Energy; Supporting UN Sustainable Development Goals with level 1 telephone emergency response best practice;

MESSAGES FROM EVENT ORGANISERS

2021 EAST ASIAN SEAS CONGRESS UNVEILS LINE-UP OF ACTIVITIES FOR MAIN CONFERENCE

Preparations for the 2021 East Asian Seas (EAS) Congress are now in full swing as Partnerships in Environmental Management for the Seas of East Asia (PEMSEA), the Royal Government of Cambodia and the Ministry of Environment, Province of Preah Sihanouk, have unveiled the line-up of activities for this year’s highly anticipated event. The 2021 EAS Congress, the seventh in a series of triennial ocean conferences, will be held on December 1-2 virtually, and onsite in Sihanoukville, Cambodia. [Read more](#)

2022 INTERNATIONAL OIL SPILL SCIENCE CONFERENCE, HALIFAX, CANADA

On behalf of the Organizing Committee, we warmly welcome you to the International Oil Spill Science Conference 2022 (IOSSC) on March 21-25, 2022 in Halifax, Canada. The conference aims to provide a platform for professionals, scholars and students from the oil spill response community, government, industry, and academia to work together to deal with the challenges in the field of oil

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

spill response. The conference will bring experts from around the world to present their latest research in the field of oil spill science including spill prevention, contingency planning, and environmental rehabilitation.

Presenters/authors are invited to submit abstracts containing no more than 300 words through the conference website. The deadline to submit an abstract is January 7, 2022.

For more details, please visit our IOSSC 2022 conference website at <https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/>. The schedule and other event information will be updated on the website. If you have any questions, please do not hesitate to contact us at IOSSC2022@gmail.com.

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/> 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)

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

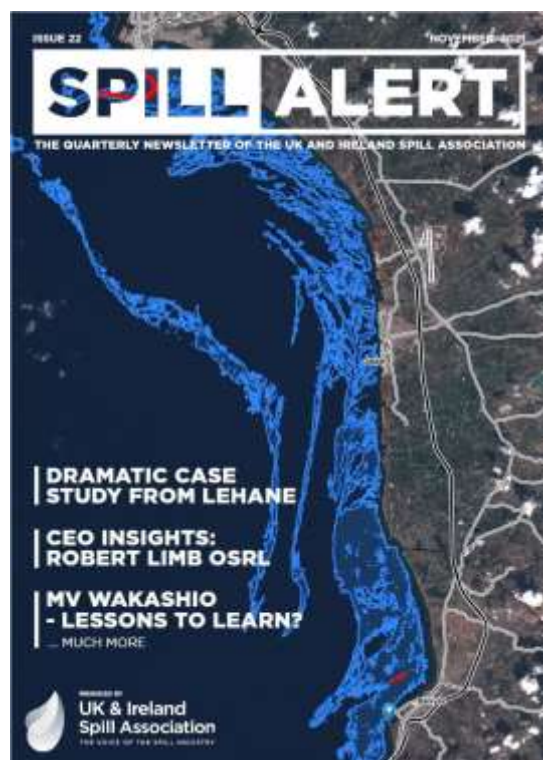
<https://spillcontrol.org/2021/10/19/links-for-downloading-and-reading-other-publications/>

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

NEW ISSUE OF UK & IRELAND SPILL ASSOCIATION'S "SPILL ALERT" HAS BEEN PUBLISHED



We are delighted to share with you Issue 22 of Spill Alert! The quarterly publication from UK & Ireland Spill Association.

The contents include:

- An unusual incident case study from Lehane Environmental in Ireland
- Gain CEO Insights with Robert Limb, CEO of Oil Spill Response Ltd
- Report on the MCA Portland Exercise which several of our members actively participated
- We report on Why Plastic is not too fantastic!
- Raise our members' concerns with LCRM which we are addressing with the EA
- We also reflect on some early lessons to be learned from the MV Wakashio incident
- Welcome 3 new members
- And of course, there is plenty of Industry news and Member News
- Plus an update on Interspill 2022!

[Download and read the November 2021 Issue of Spill Alert](#)

NIGERIA: INTERNATIONAL HELP BEING SOUGHT TO STOP NEMBE OIL SPILL

As at 20th November the uncontrolled oil blow-out had been continuing for two weeks (see reports in last week's newsletter)

November 21 - AITEO Eastern Exploration and Production says it is seeking foreign technical expertise to halt the ongoing November 5 oil leak at an oilfield it operates in the Nembe Creek, Bayelsa State. Vanguard / [Read more](#)

November 25 - Nembe Oil Spill: Ijaw Group Tackles Aiteo Over Poor Response New Telegraph / [Read more](#)

November 25 - Nigeria's president says Aiteo oil spill will be "speedily" addressed. Hellenic Shipping News / [Read more](#)

November 26 - Nembe creek OML 29 wellhead still spewing crude oil after 19 days. Vanguard / [Read more](#)

November 26 - Halliburton Co. confirmed that one of its units had been hired All Africa / [Read more](#)

November 26 - The containment exercise continues, with booms and environmental barges mopping up crude. Punch / [Read more](#)

November 26 - Aiteo Distributes Relief Material To Affected Communities Within Nigeria / [Read more](#)

November 27 – Aiteo said that foreign technical well control experts are already on the incident site while specialised equipment to plug the leaking well were arriving the spill site within Oil Mining Lease (OML) 29. "All relevant personnel and experts, local and international, are now on location. The marine spread carrying the pumps, chemicals, cranes, and firefighting equipment are 100% mobilised and have set sail to location. Two units of 1,000 Metric tonnes capacity Ramp barge (vessel), containing simulation equipment for the well kill also sailed today. Simultaneously, concurrent activities, including spotting and hook up of hoses, are ongoing on the barges to minimise clean up downtime. TBI Africa / [Read more](#)

To be continued.

USA: HAWAII - NAVY REPORTS 14,000-GALLON FUEL LEAK AT RED HILL TANK FARM

November 22 - For years, the U.S. Navy has struggled to convince residents near its strategic Red Hill fuel storage facility in Pearl Harbor that the WWII-era site is environmentally safe. That cause suffered a setback on Sunday when the Navy announced that 14,000 gallons of fuel-water mixture had spilled from an ongoing leak in a drain line at the site.

The Red Hill site is an underground fuel storage facility near Honolulu with 20 steel-lined underground storage tanks. It has a total capacity of about 250 million gallons, and it is connected by gravity-fed pipeline to fuel piers at Pearl Harbor. The gravity discharge lines provide the Navy with a reliable, high-speed method of bunkering its warships, even without power.

The Maritime Executive / [Read more](#)

SOUTH AFRICA: OIL SPILL PROBE FROM VESSEL BUNKERING OPERATION IN ALGOA BAY CONTINUES

November 23 - The Department of Forestry, Fisheries and Environment along with the SA Maritime Safety Authority (Samsa) are still investigating an oil spill that occurred during a vessel bunkering operation in Algoa Bay, the Eastern Cape, last week.

In a joint statement, the department and Samsa said a small amount of emulsified heavy fuel oil, commonly known as tar balls, had washed ashore along the beach between Hougham Park and the Sundays River. Around 80l of fuel entered the sea.

News 24 / [Read more](#)

INDIA: OIL/CHEMICAL TANKER COLLIDES WITH ANOTHER SHIP OFF GUJARAT COAST

November 27 - Two ships have collided at around 12 nautical miles off Okha coast in Devbhoomi Dwarka district of Gujarat. According to the Indian Coast Guard (ICG), all crew members are safe and there is no oil spill or marine pollution so far. Monitoring is on as one of two ships is 183 meter long oil/chemical tanker. Daijiworld / [Read more](#)

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