



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)

SPECIAL ISCO PROMOTION

PLEASE CLICK ON THE BANNER BELOW FOR MORE INFORMATION



TWELVE GOOD REASONS WHY YOU SHOULD BE A MEMBER OF ISCO

[Editor: ISCO is going to be removing members who have not paid their subscriptions for a long time. It's a last chance for lapsed members to preserve their membership benefits and avoid being struck from the roll of members.]

Even when budgets are tight, you can fully justify the cost of ISCO membership

1. **INDUSTRY RECOGNITION** - Be recognised as a member of a worldwide community of professionals who share a common interest.
2. **LISTING ON ISCO DIRECTORY** - Corporate Members enjoy FREE Listing in ISCO's International Directory of Spill Response Contractors, Equipment Suppliers, Training Providers, and Consultancy Services. All your information displayed and one click access to your website. It's a great search facility for potential customers. More info available from Mike Watson at mike@mwadigital.com
3. **RECEIVE REQUESTS FOR EMERGENCY SUPPORT** - Corporate Members receive requests for emergency provision of resources for spill response support. The Emergency Assistance facility is there for government agencies, oil companies, shipowners and response organizations - not only for rapid sourcing of additional resources in large spill events, it can be used to help find specialised equipment not often available in response inventories, people with specialised experience and know-how, etc. Contractors can use the facility to supplement their own internally available resources.
4. **ISCO INITIATIVES - CONTRACTUAL ARRANGEMENTS, ETC** - Benefit from ISCO initiatives that are of practical value to Members – for example, the free and widely used RESPONSECON contracts that you can use - speeding up contractual arrangements for mobilisation of spill response resources, with positive implications for protecting your cash flow. See <https://spillcontrol.org/response-contract/>
5. **PR, PUBLICITY AND ANNOUNCING NEW PRODUCTS AND SERVICES** - Free publicity – Announce your new products and services developments in the

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/>



AND 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/KMxdW7IEal79namyNibVgq>

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

weekly ISCO Newsletter – reaching out to a highly targeted customer audience in over 60 countries. Corporate Members of ISCO can submit news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. It's a cost-effective way to promote your company. Disseminating news about new technical developments is of value to our community.

Corporate Members are invited to contribute articles. Contact Editor, John McMurtrie at john.mcmurtrie@spillcontrol.org

6. EXHIBITIONS AND CONFERENCES - Benefit from negotiated discounts in attending conferences and exhibitions – the savings can significantly offset the cost of maintaining your membership.

Promoting ISCO and your company on your exhibition booth - While collecting ISCO Membership Placards at the end of the IOSC exhibition (for later re-issue at other events) a member exclaimed “Oh no, we would like to keep it and put it on our booth at other shows”. Displaying the ISCO Membership Placard on your booth indicates your support of an organization dedicated to improving worldwide co-operation and preparedness.

7. ENHANCE RESPONSE KNOWLEDGE OF YOUR STAFF - To enhance response knowledge of your staff - Freely downloadable technical articles, response guidelines and loads of other useful reference information available in the Members' Area of the ISCO website.

8. CURATED NEWS IN THE ISCO NEWSLETTER - The ISCO Newsletter keeps you up-to-date on events, developing technologies, new legislation and other matters of mutual interest. This will save many hours a week of scanning, browsing and searching for all the news that matters and puts it in your inbox every week.

9. OPPORTUNITY FOR LOBBYING FOR LEGISLATIVE CHANGE - Through ISCO, Members have a voice in the drafting of new legislation that will affect their areas of interest. We introduce new initiatives at IMO and give our support to other delegates advancing developments that will be of benefit for improvement of response effectiveness.

ISCO provides an interface with National and International Government Agencies, Industry, the Scientific Community, R&D Establishments and Academia, actively supporting new developments that will be of benefit to our Members.

10. USE OF ISCO LOGO IN PROMOTIONAL MATERIAL - Members have the right to display the ISCO logo on their headed notepaper, brochures, business cards, etc. to denote that they are part of an international organisation dedicated to improving worldwide co-operation and preparedn

11. CORPORATE MEMBERS can place advertisements at a low cost in the ISCO Newsletter reaching out every week to over 3,000 potential customers in over 60 countries. Newsletter readers represent a highly targeted audience for promoting sales of response equipment, materials, consultancy services and training courses. For details, please contact Mike Watson at mike@mwadigital.com

12. STUDENTS, APPRENTICES and TRAINEES can have free student membership for the duration of their studies and upon completion of their period of free membership are encouraged to become Individual Members of ISCO. Student Members are linked into an international network of students and can get help from other ISCO members who have expertise that can assist them in their studies. For more information contact Peter Balogun Kayode at balogunkayodepeter@yahoo.com

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



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For information contact Mike Watson at spillcontrol@mwadigital.com



ISCO NEWS

REMOVAL OF LAPSED MEMBERS FROM THE ROLL OF ISCO MEMBERS

For some time reminders have been repeatedly printed in this newsletter advising members who have not kept their membership dues up-to-date that they are welcome to renew their memberships online at <https://spillcontrol.org/subscriptions/>

ISCO is now about to remove non-responding lapsed members from the roll of members. If your annual membership fees are not paid up-to-date you will lose your access to benefits provided by the organisation. Work on the lapsed members removal is due to start on 18th October 2022.

If you are unsure about your current membership status or the relevant cost of renewal please contact our VP (Membership), Mary Ann Dalglish at mrydetroit@aol.com for helpful advice.

INTRODUCING STUDENT MEMBERS OF ISCO

Student Members are invited to post introductions to themselves in the Newsletter

“I am Hayford Fiberesima from NIGERIA, A Graduate of Environmental Management Technology from the Prestigious ABUBAKAR TAFAWA BALEWA UNIVERSITY BAUCHI STATE NIGERIA”.

[Hayford’s photo is on the left]

“A multivational speaker, an Environmentalist by Profession, A Researcher, HSE Officer, An Environmental Impact Assessment (EIA) Expert, Oil Spill Remediation/Response Professional and Also an Environmental Activist/Consultant.

I am driven by the Negative/Ugly Environmental Challenges in my Immediate Environment here in The NIGER DELTA AREA OF RIVERS STATE. Especially the negative Impacts and ugly effects of Oil Spillage in the Oil Producing Region. Sustainability Remains Our Watch Word and Goal as an Environmental Activist and Scientist”.

For more information about Student Membership please contact Student Group Leader Peter Balogun Kayode at balogunkayodepeter@yahoo.com or Mary Ann Dalglish at mrydetroit@aol.com Student Membership of ISCO is free for students during the period of their studies and upon completion they have an option to continue to continue membership of ISCO as Individual Members.

MEMBERS MONTHLY MEETING - SEPTEMBER 2022

The meeting took place online on Thursday 29th September and was hosted by Mary Ann Dalglish, ISCO VP (Membership).

The following members were in attendance –

- Mary Ann Dalglish
- John Wardrop
- John McMurtrie
- Neil Marson
- Bill Boyle
- Asime James
- Hayford Fiberisma

- Carlos Sagrea
- Ed Levine
- Dan Sobieski
- Franklin Magda
- Lee Britton
- C. J. Beagle

- Peter Balogun
- Larissa Montas
- Sam Butler
- Helena Rowland

As advised in Newsletter 857 the main topic of the meeting was the ISCO Working Groups. John Wardrop, who is leading the implementation of our Action Plan, gave a short address to introduce the background –

In 2021 ISCO updated its Constitution (which details the ISCO Aims, and Organisation) and developed a number of ‘Schedules’ (which set out how ISCO operates and provides other information). The post <https://spillcontrol.org/2022/07/30/members-guide-to-the-isco-reform-process> is relevant.

In order to make necessary changes an Action Plan was developed and accepted by the ISCO Executive Committee on 14th July 2022. The tasks identified a number of high priority actions including the formation of a number of Working Groups (WGs) to undertake key tasks.

Existing volunteers who are already actively engaged in informal Working Groups were asked to re-affirm their commitment to being involved and other members are being asked to consider becoming involved. The work being done by our existing Volunteers is greatly appreciated and the Interim Executive is not asking you to commit additional time.

Next steps that were discussed included the ways in which the WGs would be operated and linked into the Action Plan.

ISCO WELCOMES LARISSA MONTAS AS A NEW INDIVIDUAL MEMBER

Former Student Member at the University of Miami, USA, Larissa has graduated Ph.D on completion of her studies in Environmental Engineering and has upgraded her Student Membership to become an Individual Member of ISCO. ISCO congratulates Larissa on her achievement.

INTERNATIONAL & REGIONAL NEWS

IMO AND COMMONWEALTH SECRETARIAT JOIN FORCES FOR SUSTAINABLE MARITIME DEVELOPMENT



Photo courtesy of IMO

October 3 - The Secretary-General of the International Maritime Organization (IMO) has signed a partnership agreement with the Commonwealth Secretariat, under which both organisations commit to strengthening the maritime and port sectors in selected developing countries through activities which will promote and facilitate the adoption of sustainable maritime transport systems and practices.

A Memorandum of Understanding (MoU) was signed on Thursday (29 September) by IMO Secretary-General Kitack Lim and Commonwealth Secretary-General, the Rt Hon Patricia Scotland KC. IMO / [Read more](#)

OSPAR: “11% OF THE NORTH-EAST ATLANTIC IS NOW PROTECTED”

October 5 - Today the OSPAR Commission announced that its [network of North-East Atlantic Marine Protected Areas \(MPA\) now comprises 583 MPAs](#) covering a surface area of 1.5 million km² or 11% of the North-East Atlantic. This means that OSPAR has achieved Aichi Biodiversity target 11 of the United Nations Convention on Biological Diversity. OSPAR / [Read more](#)

INTERNATIONAL GROUP SIGNS A NEW MEMORANDUM OF UNDERSTANDING WITH CANADIAN OIL SPILL FUND

October 6 - The International Group and the Canadian Ship Source Oil Pollution Fund (SOPF) signed a new Memorandum of Understanding (MoU) in Ottawa on 4th October to strengthen the ties between the two organisations and to ensure that the International Group Clubs and the Fund work in a collective and co-operative manner to handle claims in the event of a future significant ship sourced oil spill in Canadian waters. IGP&I / [Read more](#)

IOPC FUNDS ATTENDS RAMOGEPOL EXERCISE

October 6 - The IOPC Funds was invited to participate in the RAMOGEPol “U Portu” 2022 exercise that was held in Imperia, Italy, from 4 to 6 October 2022. The RAMOGE Agreement is an intergovernmental cooperation agreement between France, Italy and Monaco for the preservation of the marine environment. As a result of this Agreement, a transboundary exercise (RAMOGEPol) is organised yearly by one of the signatory States to combat a marine pollution incident in the Mediterranean. The exercise focuses on building preparedness and capability to lead the response to a major maritime incident and on strengthening cooperation between the three coastal States. IOPC Funds / [Read more](#)

IMO MARKING 50 YEARS OF PROTECTING THE OCEANS FROM DUMPING

October 6 - IMO is marking five decades of the London Convention, adopted in 1972 to protect the oceans from dumping of wastes. The Convention was updated in 1996 by the London Protocol, a comprehensive stand-alone global agreement, however the two treaties work in conjunction to regulate the dumping of wastes at sea. IMO / [Read more](#)

INTERNATIONAL SLOM CONFERENCE HELD IN CARTAGENA, COLUMBIA

October 8 - A report just received from Carlos Sagera, ISCO Representative in Latin America Spanish Speaking



Both photos courtesy of Sociedad Latinoamericana de Operadores de Terminales Marítimos Petroleros y Monoboyas (SLOM)

With the participation of ISCO (initial invitation of SLOM Technical Secretary Jose Perdomo and SLOM Executive Director María Camila López) and with singular success and a record number of attendees belonging to all sectors of the Latin American oil industry, the XVIII SLOM Conference (Latin American Society of Oil Maritime Terminals and Monobuoy Operators) was held between October 5 - 7, 2022, in Cartagena de Indias Colombia. Under the watchword “Responsible Operations Through Risk Control”, assigned due to the oil spill Tier III that occurred in the Port of El Callao (Peru) at the La Pampilla oil terminal in January 2022, which, in the words of one of the new directors of SLOM (Gonzalo Mera), affected the image not only of a company in Peru but of the entire oil industry in the region, the scheduled panels were developed with the intervention of recognized specialists from Latin America, USA and Europe, as well as equipment and technology providers from those continents and Asia

<https://www.jornadaoperadores.slom.co/es/programacion>



The AMPP (Association for Materials Protection and Performance) had its technical conference and presentation by José Sirera (USA). OCIMF (Capt. Aaron Cooper - Programmes Director; Kevin Coelho – Nautical Adviser; Filipe Santana - Engineering Adviser) and INTERTANKO (Dr. Phillip Belcher - Marine Director) are also sponsors and supporters of SLOM activities and had their specific day of work passing strong messages about the need for improvement of standards in Latin America and requiring feedback from them on their needs and operational practices in order to be able to consider them in the studies and priorities of their organizations. Similarly, the Latin American participants raised the need to prioritize the translation into Spanish of standards and norms, etc., something not yet prioritized by these organizations.

Concerning ISCO, noteworthy is the presence of Varichem, one of the main OSRO in Colombia, with a stand and its management (Jaime Herrera). Special highlight was the participation of Lamor, another corporate member of ISCO, with its stand from its subsidiary in Peru and especially a presentation (Diego Etcheverri) on its role as OSRO in the aforementioned spill in Peru, where it participated in response, containment and recovery activities at sea, cleaning of coasts, surveillance and monitoring, in what constitutes one of the first presentations of the case in form in a specialized forum in Latin America of this event with the presence of representatives of REPSOL (Jorge García Zas - Maritime Terminals Manager and member of the ICS in the incident at the La Pampilla Terminal in Peru; Jorge Fernández Aguirre - General Vetting Manager).

Finally, it is worth highlighting the signing of the cooperation agreement between SLOM (President Francisco Barreto) and Oil Spill Response - OSR (Michael Roldán) to promote initiatives that lead to continuous improvement in safety, environmental and operational performance of marine terminals of oil and gas management and develop projects and activities such as events and courses in their areas of influence.

SLOM confirms and thus becomes one of the main forums for the oil industry in the region with innovative and necessary initiatives such as providing frameworks for the lessons learned during the operations of its members, thus improving the necessary transparency and understanding of its activities. New SLOM authorities were elected for the period 2022 - 2024, with the board in charge of President Francisco Barreto (Brazil), Gonzalo Mera (Argentina), Angelica Hernández (Chile), Filipe Santana (OCIMF), Jose Perdomo as Technical Secretary (USA), María Camila Lopez (Executive Director of SLOM) and Fabian Sánchez (Ecuador). The next SLOM event was announced for the year 2023 in Rio de Janeiro (Brazil). <https://www.slom.co/en>

INDIA: PROTECTING ECOSYSTEMS AS A BUSINESS PRIORITY

October 5 - At the mouth of India's Godavari River lies a delta that teems with life. Beautiful and vulnerable species such as olive ridley, leatherback, and green turtles and the elusive water-loving [fishing cat](#) make their homes in the Godavari River Estuary, along with [more than 200](#) bird species. Nearly 600 square kilometers of mangrove forests also lie within the region: the second-largest concentration on India's east coast.

A Global Environment Facility-funded [initiative](#) implemented by the [UN Development Programme](#) in collaboration with the Andhra Pradesh Forest Department has made major strides in raising awareness about the benefits of protecting this ecologically sensitive area from a growing roster of threats. The GEF / [Read more](#)

ITALY: RAMOGEPOL EXERCISE "U PORTU 2022": ISPRA PARTICIPATES IN THE MANAGEMENT OF THE EMERGENCY

October 6 - The ISPRA and ARPA Liguria technicians are in Imperia to participate in the RAMogepol 2022 "U portu" exercise from 4 to 6 October. The exercise is part of the activities of the Ramoge Agreement (Italy-France-Principality of Monaco) and provides for an operational marine intervention plan to guarantee a response in the event of accidental pollution by hydrocarbons and hazardous chemicals (HNS - Hazardous and Noxious Substance). ISPRA / [Read more](#)

LIBYA: 7 OIL COMPANIES SUCCESSFULLY COMPLETE SIMULATED OIL SPILL EXERCISES AT SEA

October 3 - Seven oil companies affiliated with the National Oil Corporation (NOC) completed a level two oil spill simulation exercise at sea in the Marsa Al-Brega oil port of the Sirte Oil and Gas Production Company. According to Brega and Zueitina oil ports' statements, 1300 meters of floating booms, a system of oil skimmers and two locomotives, three anchor boats, a pollution control boat, and temporary storage places were used in the exercises. The potential quantity in this spill amounted to about 4000 barrels that leaked from the cargo platform No. 7 and about 3800 barrels were recovered, constituting 95% of the spilled oil.

Libya Observer / [Read more](#)

UK: TRAINING EXERCISE AT GWYNEDD PORT TESTS POLLUTION SAFETY PLAN

September 30 - Natural Resources Wales (NRW) and the Maritime and Coastguard Agency (MCA) have taken part in the exercise at Port Penrhyn, near Bangor, to ensure staff were prepared and ready to respond to any potential oil spill.

Officers from both organisations, along with staff from Port Penrhyn and nearby ports, took part in the simulated oil spill on Thursday, September 22, to ensure preparedness and response and to test Port Penrhyn's oil spill contingency plan. Port Penrhyn arranged the exercise through its incident response contractor, Adler and Allen. North Wales Chronicle / [Read more](#)

UK: CEFAS - CURRENT AND FUTURE EFFECTS OF MICROPLASTICS ON MARINE ECOSYSTEMS (THE MINIMISE PROJECT)

October - This project will deliver new knowledge of the risk that microplastics of different types, shapes and sizes pose to U.K. coastal ecosystems and the animals and ecosystem functions that they support. We will develop novel techniques for studying any effects of microplastics at low, environmentally relevant concentrations of microplastics. This will be made possible through the use of novel, cutting edge techniques for tracking and imaging particles in complex matrices and tissues, for determining how microplastics and co-contaminants distribute through marine food webs, and the biological and ecological effects that they give rise to. Our results will be combined with ongoing large-scale monitoring of microplastics and relevant marine functions into a geospatial risk map to guide solutions-driven interventions.

MINIMISE aims to explore the risks associated with the exposure of marine organisms to microplastics and to predict what the consequences may be for ocean ecological and biogeochemical processes. We will generate novel scientific evidence to support the setting of thresholds for risk of harm to individual animals, to the aquatic food chain from contamination, and to the stability and diversity of marine ecosystems. We will make our results scalable by incorporating complementary data from existing microplastics projects that maximises spatial and temporal coverage, and we will ensure our findings are robust by determining ecosystem responses in present versus future environments. CEFAS / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

October 3 – Please click on the links below to download and read the latest news reports from NOAA OR&R

<https://response.restoration.noaa.gov/partners-practice-how-respond-oil-spill-pascataqua-river>

On Sept. 21, NOAA Marine Debris Program's Northeast Regional Coordinator Demi Fox participated in an on-water Rapid Assessment Team during an oil spill exercise on the Piscataqua River.

<https://response.restoration.noaa.gov/37m-awarded-14-marine-debris-removal-and-prevention-projects>

On Sept. 28, the NOAA Marine Debris Program, within the Office of Response and Restoration, announced the 14 recipients of our 2022 Removal and Prevention Grant awards totaling nearly \$3.7 million in federal funds, including funding provided through the United States-Mexico-Canada Agreement Implementation Act.

PEOPLE IN THE NEWS

UK: NEW INTERIM CHIEF EXECUTIVE OF MARITIME AND COASTGUARD AGENCY ANNOUNCED



Pictured – Damien Oliver - Photo courtesy of MCA

October 7 - Damien Oliver has been appointed as the interim Chief Executive of the Maritime and Coastguard Agency (MCA).

Damien will begin his new role on Monday 17 October, which follows the current MCA Chief Executive Brian Johnson's retirement. Damien has had a number of high-profile roles within the MCA since joining in 2001 and he will bring a wealth of maritime experience and knowledge.

MCA / [Read more](#)

USA: SCAA - CHRIS TRACY HAS BEEN APPOINTED AS CHAIR FOR FUTURE ENVIRONMENTAL LEADERS COMMITTEE

Pictured – Chris Tracy – Photo courtesy of SCAA

October 7 - The Spill Control Association of America is excited to announce that Chris Tracy has been appointed as Chair of the Future Environmental Leaders (FEL) Committee! Chris completed his Bachelor of Science in Biological Engineering from The Ohio State University before completing his Master of Science in Environmental and Ecological Engineering from Purdue University. He is currently an Environmental Engineer for Heritage Environmental Services.

The Future Environmental Leaders Committee is responsible for developing and engaging young response professionals for networking and sustainability of the association. SCAA / [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

ENVIRONMENTAL PROTECTION ENGINEERING (EPE) NEWLY ACQUIRED OIL SPILL RESPONSE VESSEL CONTRACTED BY EUROPEAN MARITIME SAFETY AGENCY (EMSA) FOR AEGEAN SEA

October 3 - A fully refurbished high-spec oil spill response vessel for the Aegean Sea has now entered service under a four-year

NEWS FROM ISCO MEMBERS (CONTINUED)

contract with the European Maritime Safety Agency (EMSA). There is also an option to extend this agreement for a further four years. The AKTEA II OSRV will be able to reach anywhere in the Aegean within 24 hours and can collect and carry up to 4,500 tonnes of oil.

The AKTEA II OSRV is considered the most modern and capable vessel of this type in Europe. It is owned by Environmental Protection Engineering (EPE) and operated by POLROM, based in Piraeus, Greece.

Environmental Protection Engineering (EPE) unveiled the AKTEA II OSRV at a grand ceremony on Wednesday 28 September at the Port of Piraeus, celebrating the new vessel going into force, attended by Mr Konstantinos Katsafados, Deputy Minister, Ministry of Maritime Affairs & Insular Policy, and Vice Admiral HCG Mr Alexandros Tselikis, Second Deputy Commandant of the Hellenic Coast Guard, as well as senior stakeholders from both EPE and EMSA, including Mr Ioannis Polychronopoulos, President & Managing Director at EPE, Dr Vassilios Mamaloukas-Frangoulis, Director of Marine Environment Protection Department at EPE, and Mr Frédéric Hébert, Head of Unit 1.1: Sustainability at EMSA.

Based in Piraeus, Greece AKTEA II OSRV (IMO 9327516) will help safeguard Greek waters from environmental catastrophes. The tanker has onboard capacity of 4,486 m³ for recovered oil and is equipped with two systems for the mechanical recovery of oil: two rigid sweeping arms and offshore booms (2x250m) with a high-capacity skimmer. The onboard radar-based oil slick detection system increases the efficiency of oil recovery operations at sea. Sea News / [Read more](#)

OSRL – UPCOMING EXERCISES AND MORE NEWS IN SEPTEMBER NEWSLETTER

Incident Management System [Singapore: 10-14 October](#) [Bahrain: 7- 9 November](#)

This exercise is designed to provide an opportunity for Response and Preparedness personnel to respectively maintain and reacquire competency in the Incident Management System.

Surface Dispersant Response [Bahrain 10-14 October](#)

This exercise is designed to provide an opportunity for Response and Preparedness personnel to respectively maintain and reacquire competency in Surface Dispersant Response techniques and strategies.

At sea containment and recovery [Bahrain: 24- 28 October](#)

This exercise is designed to provide an opportunity for Response and Preparedness personnel to respectively maintain and reacquire competency in Containment response techniques and strategies..

Capping [Brazil: 24-28 October](#), [Norway: 21- 25 November](#), [South Africa: 21- 25 November](#)

This exercise is designed to provide an opportunity for Response and Preparedness personnel to respectively maintain and reacquire competency in Capping.

Other content – Tips for what makes a great exercise, Website news: Goodbye, Technical Library...Hello, Knowledge Hub, The Future of Remote Training, and Upcoming Webinars. [Download and read OSRL's September Newsletter](#)

SCIENCE & TECHNOLOGY

If you are interested in new technology you might 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/>

DAMEN DELIVERS MISSION EQUIPMENT PACKAGE FOR KOEM MULTIPURPOSE VESSEL

September 27 - Damen Shipyards delivered a complete equipment package for the multipurpose vessel ENDAM. Owned by the Korean Marine Environment Management Corporation (KOEM), the newbuild combines emergency oil spill recovery activities with maintenance dredging tasks.

With a 4,100 m³ hopper hold, the vessel was built by HJ Shipbuilding & Construction at its Busan yard and designed by KmsEmec. The mission equipment package provided by the Damen Technical Cooperation (DTC) team included a 15 m rigid oil sweep arm with a dedicated pump and handling crane for the emergency oil spill recovery functionality, and a complete turnkey dredging system, which was designed specifically for the vessel. The Maritime Executive / [Read more](#)

HOW DO OIL PROPERTIES AFFECT OIL SPILL RECOVERY EFFICIENCY?

In a paper recently published in the journal *Ocean Engineering*, researchers employed a free-surface vortex method for crude oil recovery, while studying its flow process in a vortex by carrying out scaled laboratory experiments.

In the present study, a novel vortex skimmer was developed, indicating a greater processing capacity than conventional skimmers.

In this study, analyses on cyclone separation and vortex recovery were carried out. A cyclone separator and an oil skimmer made up the two components of the experimental setup. Two liquid components were utilized, with tap water being the highest amount and crude oil from the Bohai Sea being used for the test oil spill.

The white oil that was tested was a less viscous, lighter lubricant. Rheological tests were carried out on the oil samples to determine the viscosity-temperature and density characteristics of the crude oil and diesel-mixed oil. The tangential velocity model was applied to analyze the change law and distribution of the velocity to understand the oil spill mechanism.

Furthermore, the free-surface vortex was numerically calculated. The momentum equation was solved using the Semi-Implicit-Method for Pressure Linked Equations (SIMPLE) method, and the discretization was conducted in the second-order upwind fashion. The continuity equation was solved by employing The Reynolds average equation's $k-\epsilon$ model by the Renormalization Group (RNG). AZO Materials / [Continue reading](#)

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.

168. PAH depletion in weathered oil slicks estimated from modeled age-at-sea during the Deepwater Horizon oil spill

Montas, L., Ferguson, A.C., Mena, K.D., Solo-Gabriele, H.M., Paris, C.B.
(2022) *Journal of Hazardous Materials*, 440, art. no. 129767,
DOI: 10.1016/j.jhazmat.2022.129767

ABSTRACT: During time-periods oil slicks are in the marine environment (age-at-sea), weathering causes significant changes in composition and mass loss (depletion) of oil spill chemicals including the more toxic polycyclic aromatic hydrocarbons (PAHs). The goal of this study was to estimate the age-at-sea of weathered oil slicks using the oil spill module of the Connectivity Modeling System and to use this age to interpret PAH concentration measurements. Percent depletion (PD) for each measurement was computed as the percentage difference between the original and measured PAH concentration in the crude oil and weathered oil slicks, normalized upon the mass losses relative to hopane. Mean PD increased with estimated age-at-sea for all PAHs. Less PD was observed for alkylated than for parent PAHs, likely due to decreasing vapor pressure with increasing degree of alkylation. We conclude that estimated age-at-sea can be used to explain PAH depletion in weathered oil slicks. We propose PAH vapor pressure can be coupled with the model to expand capacity for predicting concentration distributions of individual parent and alkylated PAHs in weathered oil along the coastline. This new module will advance the science supporting oil spill response by providing more certain estimates of health risks from oil spills.

169. Survival outcomes of rehabilitated riverine turtles following a freshwater diluted bitumen oil spill

Otten, J.G., Williams, L., Refsnider, J.M.
(2022) *Environmental Pollution*, 311, art. no. 119968,
DOI: 10.1016/j.envpol.2022.119968

ABSTRACT: Rehabilitation is often used to mitigate adverse effects of oil spills on wildlife. With an increase in production of alternatives to conventional crude oil such as diluted bitumen (dilbit), emergency spill responders and wildlife rehabilitators need information regarding the health and survival of free-ranging vertebrates exposed to dilbit under natural conditions. In 2010, one of the largest freshwater oil spills in the United States occurred in the Kalamazoo River in Michigan, when over 3.2 million liters of spilled dilbit impacted 56 km of riverine habitat. During 2010 and 2011 cleanup efforts, thousands of northern map turtles (*Graptemys geographica*) were captured from oiled stretches of the river, cleaned, rehabilitated, and released. We conducted extensive mark-recapture surveys in 2010, 2011, and 2018–2021, and used this dataset to evaluate the monthly survival probability of turtles 1–14 months post-spill and 8–11 years post-spill based on whether turtles were temporarily rehabilitated and released, overwintered in captivity and then released, or were released without rehabilitation. We found that rehabilitated or overwintered turtles had a higher

probability of survival 1–14 months post-spill than non-rehabilitated turtles; however, 8–11 years post-spill the among-group differences in monthly survival probability had become negligible. Additionally, following the oil spill in 2010, nearly 6% of northern map turtles were recovered dead, died during rehabilitation, or suffered injuries that precluded release back into the wild. Our results demonstrate that exposure to dilbit in free ranging turtles causes direct mortality, while effort spent on the capture and rehabilitation of oiled freshwater turtles is important as it increases monthly survival 1–14 months post-spill.

170. The degradation and toxicity of commercially traded vegetable oils following spills in aquatic environment

Tamothran, A.M., Bhubalan, K., Anuar, S.T., Curtis, J.M.
(2022) *Environmental Research*, 214, art. no. 113985,
DOI: 10.1016/j.envres.2022.113985

ABSTRACT: The production of commodity and specialty vegetable oils is increasing every year to fulfill the ever-increasing demand where the trading of oils occurs primarily via sea shipping. Spills of vegetable oil into the aquatic environment may result in detrimental effects on aquatic ecosystems. Environmental degradation of vegetable oil spills occurs mainly via microbial activity, chemical oxidation, wave and wind actions. However, the polymerization of oils can hinder their ability to naturally degrade. Thus, human intervention in the form of both short- and long-term remediation, is desirable to reduce the effects of vegetable oil spills on aquatic ecosystems. Studies have been conducted to determine how the type and concentration of the vegetable oil contamination influence its toxicity on various organisms. Some studies show that the effect of vegetable oil spills is found to be relatively short-lived and to a certain extent increase the survivability of certain organisms. However, the integrated effect of vegetable oil spills on aquatic organisms and their environment is still being researched. This review summarizes the existing knowledge on the reported occurrences of vegetable oil spills, their degradation, and their toxicity towards the surrounding aquatic environment which would be helpful in the knowledge transfer of remediation of vegetable oils.

171. Estimation of overall droplet size distribution from a local droplet size distribution for a jet in crossflow: Experiment and multiphase large eddy simulations

Daskiran, C., Liu, R., Lee, K., Katz, J., Boufadel, M.C.
(2022) *International Journal of Multiphase Flow*, 156, art. no. 104205,
DOI: 10.1016/j.ijmultiphaseflow.2022.104205

ABSTRACT: A local droplet size distribution (DSD) from a jet in crossflow can overestimate or underestimate the overall DSD in the plume based on the measurement location. The overall DSD is crucial to evaluate the fate of oil droplets in the water column for a proper countermeasure following an oil spill. We present experimental results of a vertical oil jet in crossflow with a jet velocity of 2.4 m/s and a crossflow speed of 0.31 m/s, resulting jet-to-crossflow velocity ratio of 7.7 and a jet Reynolds number of 13,400. We measured the droplet size near the top and bottom boundaries of the plume while filming the whole plume. We conducted multiphase large eddy simulations coupled with a population balance model considering the relative velocity among the phases in the momentum and volume fraction equations. The computed plume boundaries and the DSD from the simulations agreed well with the measurements. The Sauter mean diameter and DSD considering all droplets across the plume cross-sections were found to be changing slightly beyond $s/D \approx 15$. By considering different plume cross-sections for $s/D > 15$ and different droplet breakage rates, the overall DSD in a plume cross-section can be obtained locally near the vertical centerline of the plume cross-section ($y/D = 0$) at $(58.8 \pm 6.2)\%$ of the plume cross-section height from the bottom boundary of the plume. The trajectory of the local DSD representing the overall DSD was found slightly below the plume trajectory.

172. Modelling and CFD simulation of the trajectory of an oil spill in a large domain: Analysis of the 2003 Foss Barge — Point Wells event

Sbragio, R., Martins, M.R.
(2022) *Ocean Engineering*, 262, art. no. 112315,
DOI: 10.1016/j.oceaneng.2022.112315

ABSTRACT: This work proposes a procedure for the Computational Fluid Dynamics (CFD) simulation of an oil spill at a large domain. The use of CFD in a large domain usually has restrictions due to the discretization that is needed for good accuracy. The problem increases as the wind effects over a wavy sea surface must be taken into account. To overcome these difficulties, these effects are included in the boundary conditions, through analytical models or simplified simulations. The effect of the wind is commonly determined by a wind drift factor that estimates the wind induced sea surface velocity as a percentage of the wind speed. In this paper, rather than using fixed or random values for the wind drift factor, a methodology based on CFD simulations of the wind acting over the sea surface is used together with analytical formulations, in order to reduce the subjectivity in its estimation. In addition, to avoid modelling the waves and the air phase, the wind effects are simulated as an equivalent shear stress boundary condition. This procedure is used in the simulation of the Foss Barge — Point Wells oil spill. The results of the oil spill trajectory are compared to the observed trajectory.

173 Development and testing of a SOSM approach to examine the natural attenuation of oil spillage on shorelines

Yang, Z., Chen, Z.

(2022) Journal of Hazardous Materials, 439, art. no. 129579,

DOI: 10.1016/j.jhazmat.2022.129579

ABSTRACT: Understanding the fate and behavior of spilled oil on the shoreline is crucial for helping decision-makers make trade-offs between natural attenuation and shoreline treatments. In this study, primary processes of oil attenuation and translocation on the shoreline, including penetration, washout, and biodegradation, have been considered to develop a numerical model, Shoreline Oil Spill Model (SOSM), for predicting the fate of spilled oil in various shoreline geological compartments. A holistic system design is employed to develop a user-friendly graphical interface system for SOSM. Global and local sensitivity analyses are used to examine the importance of the input factors on different outputs in SOSM. The results of the sensitivity analysis indicate that the input of oil spill mass correlates positively with the oil retention and surface and subsurface oil mass, while the oil concentration and penetration depth are sensitive to the grain size of the beach sediment. Subsequently, the SOSM is tested to hindcast the fate of stranded oil from the Exxon Valdez oil spill. Reasonable validation results have been obtained for the study site. It confirms the utility of the SOSM to examine and predict the level of shoreline oil contamination in the field following accidental spill events.

174. Transcriptome responses in copepods *Calanus finmarchicus*, *Calanus glacialis* and *Calanus hyperboreus* exposed to phenanthrene and benzo[a]pyrene,

Yadatie, F., Brun, N.R., Giebichenstein, J., Dmoch, K., Hylland, K., Borgå, K., Karlsen, O.A., Goksøyr, A.

(2022) Marine Genomics, 65, art. no. 100981

DOI: 10.1016/j.margen.2022.100981

ABSTRACT: Arctic and sub-arctic pelagic organisms can be exposed to effluents and spills from offshore petroleum-related activities and thus it is important to understand how they respond to crude oil related contaminants such as polycyclic aromatic hydrocarbons (PAHs). The copepod species *Calanus finmarchicus*, *Calanus glacialis* and *Calanus hyperboreus* represent key links in the arctic marine food web. We performed a transcriptome analysis of the three species exposed to phenanthrene (Phe) and benzo[a]pyrene (BaP) representing low and high molecular weight PAHs, respectively. Differential expression of several genes involved in many cellular pathways was observed after 72 h exposure to Phe (0.1 µM) and BaP (0.1 µM). In *C. finmarchicus* and *C. glacialis*, the exposure resulted in up-regulation of genes encoding enzymes in xenobiotic biotransformation, particularly the phase II cytosolic sulfonation system that include 3'-phosphoadenosine 5'-phosphosulfate synthase (PAPSS) and sulfotransferases (SULTs). The sulfonation pathway genes were more strongly induced by BaP than Phe in *C. finmarchicus* and *C. glacialis* but were not affected in *C. hyperboreus*. However, a larger number of genes and pathways were modulated in *C. hyperboreus* by the PAHs including genes encoding xenobiotic biotransformation and lipid metabolism enzymes, suggesting stronger responses in this species. The results suggest that the cytosolic sulfonation is a major phase II conjugation pathway for PAHs in *C. finmarchicus* and *C. glacialis*. Some of the biotransformation systems affected are known to be involved in metabolism of endogenous compounds such as ecdysteroids, which may suggest potential interference with physiological and developmental processes of the copepod species.

TRAINING COURSES

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

TRAINING COURSE: CLASSIFICATION AND LABELLING OF CHEMICALS AND POISON CENTRE NOTIFICATIONS

From Chemical Watch – “Our online training course, Classification and Labelling of Chemicals and Poison Centre Notifications, will be taking place on 2 December.” [More info](#)

NEWFOUNDLAND: Contaminated Sites Health & Safety Training (40-Hour Hazwoper), St Johns, Nov. 14-18

<https://econext.ca/contaminated-sites-health-safety-training-40-hour-hazwoper/>

UPCOMING EVENTS

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NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- OSRL TPR Series Webinar on Dispersants, October 18, 1430-1500 Andy Nicol
- Basic Concepts Webinar, Flexible Spill Containment, October 18, 11 am to Noon, EDT
- OSRL Webinar, Oiled Wildlife & Preparedness, Perspectives from S.E. Asia, Thursday 19th October 2022 - 13:30 to 14:30 Singapore time, Norman Ramos, Principal Trainer & Consultant, and Yow Lih Hern, Senior Consultant

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- Webinar - ExxonMobil Oil Spill Response Knowledge Transfer Webinar Series - "A brief but spectacular story about the creation of the ESI shoreline ranking concept, and the oil behavior, impacts, response options, and recovery in marshes" Dr. Jacqueline Michel (Research Planning, Inc.), : November 1st, 2022, 10-11:15 am
- Webinar – Remediation & Management of PFAS & Other Emerging Contaminants, 2nd November, 1500-1630 GMT
- Singapore – MEPSEAS Technology Conference, 15-17 November, 2022

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

MESSAGES FROM EVENT ORGANISERS

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

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

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

This year's CLEAN GULF Conference & Exhibition, November 8-10 in New Orleans, has a jam-packed exhibit hall filled with 100+ companies showcasing products and services such as chemical detection, compliance solutions, containment equipment, data processing, disaster communication, drones, surveillance technologies, incident software, in situ burn products, response software, restoration tools, risk analysis, safety equipment, skimmers, swiftwater boom, waste disposal and much more!

The exhibit hall will be open November 9-10, with networking breaks built into the schedule to allow for ample time to visit with the exhibitors and network with your peers. You can choose to attend the full conference + exhibition, November 8-10, or just attend the exhibition. The conference offers over 30 sessions to choose from + 2 training workshops, Keynote and State & Federal Updates.

[Download the Digital Brochure](#) [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

ITALY: ECOMONDO EXPO, RIMINI, 8-11 NOVEMBER, 2022

At Ecomondo 2022, we present, compare and identify the most appropriate technological solutions for reducing pollution and restoring the Mediterranean macro-region, and at the same time, bring together local institutions, private and public actors and financing entities as well citizens and consumers.

[Log in to the reserved area, fill in your data, download your ticket](#) [Digital Preview](#)

AUSTRALIA: ALGA GROUNDWATER FATE & TRANSPORT SYMPOSIUM

ALGA's Groundwater Fate & Transport Special Interest Group (SIG) is pleased to announce the 2022 Groundwater Fate & Transport symposium will be held in Melbourne on 18 November 2022. The symposium aims to share the latest insights, developments and applications for improving our understanding of contaminant behaviour in the environment.

<https://www.cvent.com/c/abstracts/e9e34139-c7a0-4969-88b9-e2cfb510baab>

USA: CALIFORNIA - 10TH BIENNIAL OIL SPILL RESPONSE TECHNOLOGY WORKSHOP FEBRUARY/MARCH 2023

California Department of Fish and Wildlife Office of Spill Prevention and Response (OSPR) and Chevron 10th Biennial Oil Spill Response Technology Workshop February/March 2023 in California (TBD). Email or request more

info: TechWorkshop2023@wildlife.ca.gov

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

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. 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: 11-13 APRIL, 2023

Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13.

The [preliminary conference agenda](#) is now available for the 2023 CLEAN WATERWAYS Conference! A total of 12 sessions have been programmed by our [planning committee](#), which is made up of a group of operators, state and federal regulators, consultants, service companies and OSROs. They came together last month to create a program that ensures we deliver sessions covering the most pressing issues for spill prevention and response in the inland environment.

Registration rates are currently at a discount of \$350! These are the lowest rates offered for CLEAN WATERWAYS 2023 and expire on Friday, October 28th. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#)

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

Spillcon 2023 has been confirmed for 11–15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. For more information contact Spillcon Event Team, Nicky Reading, GPO Box 279, Canberra ACT 2601, Australia; Phone +61 417 244 355, Email spillcon@ajp.com.au

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INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

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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>

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NEW PUBLICATIONS

COASTAL CLEAN-UP : A NEW OPERATIONAL INTERVENTION GUIDE FROM CEDRE



Publication of the guide "Cleaning up polluted coastline following an oil spill" which is intended for decision-makers, anti-pollution officials and intervention teams.

This new guide synthesizes the knowledge acquired by Cedre during the accidents in which it has intervened or during the many studies it has conducted.

It aims to provide the necessary information for decision-making

NEW PUBLICATIONS (CONTINUED)

adapted to the environment and the pollutant, to present the cleaning techniques and equipment most frequently used on the various coastal facies and to provide recommendations on the organization of cleaning sites. Numerous fact sheets provide operational advice on cleaning techniques. The digital version [can be downloaded free of charge from the Cedre website](#) and the paper version is on sale for €25.

INCIDENT REPORTS

EUROPE: AFTER NORD STREAM ATTACK, SCRAMBLE TO SECURE SUBSEA PIPELINES

October 2 - When a suspected sabotage attack ruptured the Nord Stream 1 and 2 lines on Sept. 26, several hundred thousand tonnes of Russian natural gas was released into the atmosphere. As it evaporated into the air, so too did any sense of complacency about security in the deep. European nations are now taking extra steps to protect their vulnerable subsea pipelines: The UK is planning to buy two special-purpose ships to survey and defend against subsea threats; Norway has deployed additional naval assets to patrol its sprawling offshore oil and gas infrastructure; and the Italian Navy has dispatched ships to monitor gas pipelines in the Mediterranean. The Maritime Executive / [Read more](#)

October 6 - Sweden Finds Evidence of "Gross Sabotage" at Nord Stream Sites

Sweden's Security Service has completed its investigation of the scene of the Nord Stream 1 and 2 gas pipeline leaks in the Swedish EEZ, and the results have strengthened suspicion of "gross sabotage." "The Security Police can state that there have been detonations at Nord Stream 1 and 2 in the Swedish economic zone, which have caused extensive damage to the gas pipelines," the agency said. The Maritime Executive / [Read more](#)

USA: MICHIGAN: 1.37M GALLONS OF PARTIALLY TREATED WASTEWATER SPILLS INTO HURON RIVER

October 6 - Ann Arbor officials are investigating the discharge of more than 1 million gallons of partially treated wastewater into the Huron River earlier this week from the city's wastewater plant after maintenance work shut down a component in the treatment process. The Detroit News / [Read more](#)

RED SEA: 2,000 TEU CONTAINER SHIP MAJOR FIRE, ABANDONED

October 6 - Report: Rumors are container ship TSS PEARL is on fire or disabled by fire in Red sea. Ship's last AIS was around 2000 UTC Oct 5, ship was already adrift. She's en route from Jeddah to Aden

October 7 - UPDATE: From the looks of her, ship is suffering a major fire which erupted in containers, with thick black smoke billowing from burning containers, superstructure is engulfed in smoke and probably, fire, and is obviously uninhabitable. All 25 crew abandoned the ship and were rescued, understood by passing tanker. Later they've been taken by Saudi Arabia CG and disembarked at Jazan Port, Saudi Arabia, all are safe. Ship's AIS is off – no wonder here. Passing ships in the area give burning ship's location a wide berth, understood avoiding possible toxic smoke, fumes and explosions. Maritime Bulletin / [Read more](#)

CANADA: BULK CARRIER UNDER TOW AFTER GROUNDING

October 7 - Bulk carrier ALE reportedly touched bottom or ran aground in Long Pond, Conception Bay, Newfoundland, on Sep 14. The ship was refloated and anchored, but apparently, damaged, on Oct 4 she was taken on tow by 2 tugs (ATLANTIC FIR; ATLANTIC LARCH), to be towed to Les Mechins Canada, ETA Oct 10. While at anchor, she was fenced off with booms in stern area, light oil sheen was later observed. Maritime Bulletin / [Read more](#)

USA: CALIFORNIA - OIL SHEEN CONTAINED IN TALBERT CHANNEL NEAR SITE OF LAST YEAR'S MAJOR O.C. PIPELINE SPILL

October 7 - State officials have contained an oil sheen that was spotted in Talbert Channel near Huntington Beach on Friday morning. "Due to the brownish milky characteristics of the oil officials believe it may be from an abandoned pipeline," state officials said. Los Angeles Times / [Read more](#)

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