



## 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

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- 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)

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

## INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



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## OCEAN CLEANUP PROJECT ACHIEVES MAJOR MILESTONE IN GREAT PACIFIC GARBAGE PATCH

The largest and most ambitious ocean cleanup project in history is claiming its first 100,000 kg of plastic removed from the Great Pacific Garbage Patch.

The company behind the project, called The Ocean Cleanup, announced the milestone this week, about a year after its second system was deployed to the Pacific Ocean between California and Hawaii.

Since then, the system has collected 101,353 kg of plastic over 45 extractions, sweeping an area approximately the size of Rhode Island. Combined with its first system, the total amount of plastic collected weighs in at 108,526 kg, more than the combined weight of two and a half Boeing 737-800s.

The Ocean Cleanup estimates the amount is approximately 1/1,000th of the plastic that has accumulated in the Great Pacific Garbage Patch. Not to be dismayed, however, because the company's third system is expected to capture plastic at a rate potentially 10 times that of system two, due to its size, efficiency and improved uptime.

Watch a full video update about System 03 development and where, when, and how it will be helping rid the oceans of plastic: <https://youtu.be/fq0YkhXKIKw>. Today, the company has its sights set on removing 90% of floating ocean plastic by 2040. gCaptain / [Read more](#)

## 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/KMxdW7IEal79namyNlbVqg>

## ADVANCE YOUR CAREER BY GAINING PROFESSIONAL RECOGNITION

Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment. All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO. The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications. You can apply for MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

[About Professional Membership](#)  
[Professional Membership Application Form](#)

# ISCO NEWS

## CAN YOU HELP ISCO AT CLEAN PACIFIC?

This year Mary Ann and Helena are unfortunately not going to be able to attend at the ISCO Booth at Clean Pacific (August 23-24 at Lake Washington, Seattle).

We are therefore urgently looking for help in finding someone to provide cover at our booth in the Exhibition Hall. If you think you might be able to look after our booth on either one or both of the two days of the conference, please get in touch with Mary Ann as soon as you can. Her email address is [mrydetroit@aol.com](mailto:mrydetroit@aol.com)

## NOTICE TO ISCO MEMBERS

This refers to the Notice in last week's ISCO Newsletter.

A copy of the Stage I Action Plan and an over-arching, longer-term, Strategy Plan can be accessed via the Members' Area of the ISCO web site. Click on this link: <https://spillcontrol.org/2022/07/30/members-guide-to-the-isco-reform-process/>

If you had a problem following this link, this is to remind you that these documents are in the Members' Area of the ISCO website and you will need to log in – Go to [www.spillcontrol.org](http://www.spillcontrol.org) Click on MENU and you will see the LOG IN button at the top of the page.

## INVITATION TO ISCO MEMBERS

As advised in the Notice to ISCO Members, ISCO is currently undergoing some reforms and improvements. As part of this ISCO will be establishing a number of new Working Groups to participate in this process. ISCO therefore is extending an invitation to any Member who would like to participate in these.

Why volunteer? As a Working Group participant you can:

- Contribute ideas and other input into the reform process.
- Gain an insight into the ISCO organisation.
- Interact with other ISCO members and expand your professional contacts.



Image adapted from commons.wikimedia

Information on the Working Groups and how to contact the Interim Executive is available in the Members Area of the ISCO web-site. Members of existing Working Groups are also invited to read the information provided online.

## RETIRING MEMBERS OF EXECUTIVE COMMITTEE

Two long serving members of the ISCO Executive Committee have recently retired.

**M. Jean Claude Sainlos (France)** was formerly Senior Deputy Director, Marine Environment Division International Maritime Organization (United Nations) and also served as Director of REMPEC (1988 - 1998). He was an early member of ISCO and was appointed as a member of the Executive Committee in 2007.

**Chief Kola Agboke (Nigeria)**, an experienced petroleum engineer, was a pioneer of oil pollution control in Nigeria. He served on government panels to raise standards of oil industry E&P practice in the Niger Delta. He was extensively involved in technology transfer throughout the Nigerian Petroleum Industry and served on government committees, advising on pollution control and environmental matters. Chief Kola joined ISCO in 2005.

ISCO is grateful to both M. Jean Claude Sainlos and Chief Kola Agboke for their long service and their commitment to supporting the development of the organisation. The Committee wishes them both a long and happy retirement.





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For information contact  
**Mike Watson at**  
[spillcontrol@mwadigital.com](mailto:spillcontrol@mwadigital.com)

### **OSPAR LAUNCHES 2ND MARINE LITTER REGIONAL ACTION PLAN AT THE UNITED NATIONS OCEAN CONFERENCE IN LISBON (PORTUGAL)**

July 28 - The OSPAR Commission launched its 2nd Regional Action Plan to tackle marine litter (RAP ML 2) in the North-East Atlantic at a side event at this year's United Nations Ocean Conference in Lisbon (Portugal) on 28 June 2022. The plan will target marine pollution problems affecting the North-East Atlantic such as: tackling litter from rivers, phasing out additional single use plastic items, reducing microplastic releases from shipping, addressing litter from aquaculture and commercial and recreational fishing, developing measures to control or phase out plastic substances contained in offshore chemicals. [OSPAR / Read more](#)

### **STATEMENT BY INGER ANDERSEN ON UN GENERAL ASSEMBLY RESOLUTION RECOGNIZING THE RIGHT TO A HEALTHY ENVIRONMENT**

July 28 - Today, the UN General Assembly made history. Today, the General Assembly adopted a resolution recognizing the right to a clean, healthy, and sustainable environment. Today, the General Assembly delivered a victory for people and planet.

The resolution adopted today was five decades in the making. From a foothold in the 1972 Stockholm Declaration, the right has been integrated into constitutions, national laws and regional agreements. In October 2021, it was recognized by the UN Human Rights Council. Today's decision elevates the right to where it belongs: universal recognition. [UNEP / Read more](#)

### **SHIPPING TRAFFIC CAUSE OF OIL SLICKS IN EASTERN ARABIAN SEA: STUDY**

July 31 - Shipping traffic is the primary cause of oil slicks in the eastern Arabian Sea, contributing a larger share (1024.8 sq. km) to the oil spills in the region between 2017 and 2020 than those caused by oil fields located at Bombay High off the coast of Maharashtra (843.90 sq. km), a new study by scientists at the National Institute of Oceanography has revealed.

The study by Suneel, V Trinadha Rao, and others made use of the freely accessible Sentinel-1 Synthetic Aperture Radar (SAR) imagery to study year-to-year distribution of oil spills and identify the potential hot spots. It analysed satellite imagery from 2017 to 2020. The research has been published in the peer-reviewed Marine Pollution Bulletin earlier this year [Hindustan Times / Read more](#)

### **RUSSIA AND CHINA CONDUCTING HIGH-RISK OIL TRANSFERS IN ATLANTIC OCEAN**

August 1 - Russian and Chinese tankers are carrying out high risk ship-to-ship crude oil transfers at a newly established spot in the middle of the Atlantic Ocean, it has been revealed. Analysis has tracked at least a dozen tankers involved in transferring or receiving crude oil of Russian origin, which then set sail for destinations in Asia, particularly China. [Hellenic Shipping News / Read more](#)

### **CARTAGENA CONVENTION SECRETARIAT STRENGTHENS COOPERATION WITH ACS**

August 1 - On 21st July 2022, Acting Coordinator of the Cartagena Convention Secretariat, Christopher Corbin, met with Ana Ramirez, Director for Disaster Risk Reduction, Environment and the Caribbean Sea, at the [Association of Caribbean States \(ACS\)](#) in Trinidad and Tobago. During the meeting, both parties discussed:

Opportunities to enhance the collaboration between the Cartagena Convention Secretariat and the ACS; Areas for cooperation which include marine pollution, sargassum, sustainable tourism, Caribbean Sea resolution, maritime transportation; Sustainable Development Goal 14, ratification of the Cartagena Convention and its Protocols and related global Multilateral Environmental Environments; Cooperation to build capacity on microplastics monitoring through a joint virtual workshop. [UNEP / Read more](#)

### **METHANE GUIDING PRINCIPLES INITIATIVE LAUNCHES TOOLKIT TO SUPPORT THE GLOBAL METHANE PLEDGE**

August 2 - Over 120 countries have joined the Global Methane Pledge, launched at COP26. The pledge seeks to collectively reduce all methane emissions from human activities by at least 30% below 2020 levels by 2030. As part of this commitment, the MGP have developed a new [Methane Policy Toolkit](#) that is aimed to support governments as they develop or update policies and regulations to drive down oil and gas methane emissions and work towards the goals set in the Global Methane Pledge. The toolkit aims to connect regulators to key resources and institutions supporting their efforts. [IPIECA / Read more](#)

### CALLS FOR PROPOSALS TO SUPPORT MPAS AND MARINE LITTER MANAGEMENT

August 3 - Through funding from the [Capacity Building Related to Multilateral Environmental Agreements in Africa, Caribbean, and the Pacific Countries](#) (ACP MEAs III) programme, the Gulf and Caribbean Fisheries Institute (GCFI) is offering small grants to support organizations in the management of marine litter and capacity-building at site-specific marine protected areas (MPAs) in the Wider Caribbean Region. These activities are being done through the Caribbean Node on Marine Litter (GPML-Caribe), co-hosted by the Cartagena Convention Secretariat and GCFI, and MPACoconnect, a partnership between GCFI and the National Oceanic and Atmospheric Administration (NOAA). UNEP / [Read more](#)

### MARINE AND PORTS REVIEW ISU CONTRIBUTION

August 4 - An overview of current issues in marine salvage – A short article by Ms Charo Coll, President, International Salvage Union  
The latest available statistics from the International Salvage Union (ISU) – the global trade association for marine salvage contractors – are from 2016 and they remind us that salvage is a variable business. [ISU / Continue reading](#)

## NEWS REPORTS FROM AROUND THE WORLD

### CANADA AND THE UNITED STATES RELEASE THE STATE OF THE GREAT LAKES 2022 REPORT AND THE 2022 PROGRESS REPORT OF THE PARTIES SHOWING CONTINUING RESTORATION OF THE GREAT LAKES

July 29 - Today, Environment and Climate Change Canada and the United States Environmental Protection Agency jointly published two reports required under the Agreement: the State of the Great Lakes 2022 Report and the 2022 Progress Report of the Parties.

#### Associated links

- [State of the Great Lakes 2022 Report](#)
- [2022 Progress Report of the Parties](#)
- [2022 Great Lakes Public Forum Registration](#)

Government of Canada / [Read more](#)

### GREECE: EMSA CONTRACTED OIL SPILL RECOVERY VESSEL AKTEA II ENTERS INTO STAND-BY SERVICE FOR POLLUTION RESPONSE

Following the successful completion of the preparation phase, m/t Aktea II OSRV (IMO 9327516) was successfully accepted on 30 June 2022 and is now ready to respond to oil pollution incidents. The vessel, contracted from the company Environmental Protection Engineering (EPE), is based in Piraeus, Greece and is primarily covering the area of the Aegean Sea. The tanker has onboard capacity of 4 486 m<sup>3</sup> for recovered oil and is equipped with two systems for mechanical recovery of oil: two rigid sweeping arms and offshore booms (2x250m) with high-capacity skimmer. The onboard radar-based oil slick detection system will increase the efficiency of oil recovery operations at sea. [Read more in the August 2022 issue of the EMSA Newsletter](#)

### ITALY: ECOMONDO - FUNDING CIRCULAR ECONOMY INNOVATION IN EUROPE



August 1 - The European Commission is taking part in Ecomondo 2022 to bring visitors up to speed with the latest European funding opportunities for the circular economy. This year the European Climate, Infrastructure and Environment Executive Agency (CINEA), the European Innovation Council and SMEs Executive Agency (EISMEA) and the European Research Executive Agency (REA), representing the European Commission, joined forces to participate with several activities:

- Workshops and events
- Joint EU Stand with three Executive Agencies
- Projects and companies pitches
- One-to-one EU meeting with European Commission

## ITALY: MEMORANDUM OF UNDERSTANDING SIGNED BETWEEN ISPRA AND THE GENERAL COMMAND OF THE COAST GUARD FOR THE MONITORING AND CONTROL OF THE COASTAL MARINE ENVIRONMENT



August 4 - The President of ISPRA and SNPA, Prefect Stefano Laporta and the General Commander of the Port Authority Corps - Coast Guard, Adm. Isp. Chief Nicola Carlone, today signed a Memorandum of Understanding, lasting three years, to consolidate the collaboration between the Parties for the protection of the marine and coastal environment, through joint monitoring and assessment activities with the use of means and specialised personnel.

<https://www.isprambiente.gov.it/en/news/memorandum-of-understanding-signed-between-ispra-and-the-general-command-of-the-coast-guard>

## PHILIPPINES : ICM SITE VISIT OF TANGERANDELEGATION IN CAVITE PROVINCE

August 2 - Mr. A. Zaki Iskandar, Regent of Tangerang Regency in Banten Province, Indonesia and Vice President of the PEMSEA Network of Local Governments (PNLG) together with key officials visited the province of Cavite, one of PEMSEA's ICM (integrated coastal management) sites in the Philippines on July 19, 2022 to learn some of the good practices in ICM program implementation in the province. Cavite Province showcased some of its efforts in habitat conservation and protection, and solid and plastic waste management. PEMSEA / [See photos and Read more](#)

## THAILAND: FOLLOWING PLASTIC WASTE DOWN THE CHAO PHRAYA RIVER



*Photo: For those involved in tourism in Ayutthaya, pollution of the city's waterways is a blight. "The tourists really do look at the plastic debris along the river. It's dirty for them," says boat driver Ratimaporn. (Image: Mailee Osten-Tan / Third Pole)*

July 31 - The surrounding land is ideal for growing rice thanks to the river's annual floods, which come with the monsoon from May to October and provide an ample supply of water and nutrients. In 2012, around 45 percent of land in the Chao Phraya river basin was used for rice farming.

Fruit orchards are also common but plastics already make an appearance up here. The farms themselves are one indirect source – the material is used extensively in agriculture across Thailand. Plastic bags are tied around the fruit to protect them from pests. Once the fruit is harvested, the bags are usually thrown away. The Maritime Executive / [Read more](#)



## USA: LATEST ACTIVITY REPORTS FROM NOAA OR&R

August 1 – Please click on the links below to download and read the latest News Reports from NOAA OR&R

### [OR&R Scientists Map Sea Ice in the Arctic Using Remote Sensing](#)

Scientists from OR&R have partnered with the U.S. and Canadian Coast Guards, the Coastal Response Research Center (a partnership between OR&R and the University of New Hampshire), and remote sensing consultants at Water Mapping, LLC to advance our ability to respond to and assess impacts from spills in the Arctic.

### Oil Spill Response Training Returns in Seattle

<https://response.restoration.noaa.gov/oil-spill-response-training-returns-seattle>



*Above: Participants and instructors of the Science of Oil Spills class in Seattle. Image credit: NOAA.*

During the week of July 11, 2022, OR&R's Emergency Response Division held the first in-person Science of Oil Spill class since 2019, training 41 students from five federal agencies, four state agencies, five international agencies, and four industrial companies at NOAA's Western Regional Center in Seattle.

Students came from the U.S. Coast Guard, other parts of NOAA, the Canadian Coast Guard, the U.S. Navy, the Pipeline and Hazardous Materials Safety Administration, the Bureau of Safety and Environmental Enforcement, and state agencies in Washington, Maine, Idaho, and Minnesota. Industry participants came from Chevron, BP-Cherry Point, Shell-Canada, and Hess Corporation.

### [Shoreline Cleanup Assessment Technique Class held in the Great Lakes — First in Three Years!](#)

In 2019, a planning committee was formed to schedule class dates, define the class location, and narrow down field sites for NOAA's [Shoreline Cleanup Assessment Technique \(SCAT\) class](#).

After three long years, the training was completed July 13-15, 2022 with participation from a diverse group of students!

### [NOAA Team Supports U.S. Coast Guard Field Exercise in Rogers City, Michigan](#)

The U.S. Coast Guard Sector Sault Sainte Marie and U.S. Oil (a division of U.S. Venture) held a successful field exercise in Rogers City, Michigan on July 19, 2022.

### [Lecture Series Provides New OR&R-Focused Topics](#)

Beginning in April 2020, in the throes of the COVID-19 pandemic, a small team in OR&R's Emergency Response Division began sharing knowledge in the form of live, [virtual lectures](#) on emergency spill response, environmental protection, and related topics.

## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

### [CAMEO Suite Stats, Fiscal Year 2022, Q1-Q3](#)

This is the first of a new quarterly series on the public use of the CAMEO Suite. Our goal is to tell a more complete story here rather than just the “numbers,” getting into more of what they mean.

To those less familiar with the CAMEO Suite, it is a set of software tools designed to assist emergency planning and response — especially for events related to hazardous chemicals. It is comprised of five applications, ALOHA, CAMEO Chemicals, CAMEO Data Manager, MARPLOT, and Tier2 Submit. Of these, all are available for Windows and Mac, while CAMEO Chemicals is also available as a website and iOS and Android apps.

### [CAFE Database: Use in Inland Oil Spill Response](#)

For the past few years, the U.S. Department of the Interior has offered the webinar series “Inland Oil Spill for DOI Response” to share pertinent lectures and topics of interest to the DOI spill response community.

At the session on July 27, 2022, Valerie Chu, U.S. Fish and Wildlife Service Biologist and former OR&R scientist, provided an introduction to the Chemical Aquatic Fate and Effects (CAFE) database created by OR&R’s Emergency Response Division. The CAFE database is a tool that facilitates assessments of accidental chemical and oil releases into aquatic environments.

### [Marine Debris Program Visits Project Sites Across Southern California](#)

The week of July 18, 2022, NOAA Marine Debris Program staff participated in a tour of partner projects being conducted in the greater San Diego area.

### [Marine Debris Program Presents at the National Science Teaching Association Conference](#)

On July 22, 2022, NOAA Marine Debris Program Education Specialist Alexandria Brake and California Sea Grant Marine Debris Extension Fellow Tanya Torres led an impactful workshop for science educators focused on the Marine Debris Monitoring and Assessment Project (MDMAP) at the [National Science Teaching Association’s\(link is external\)](#) national conference.

## NEWS FROM ISCO MEMBERS

**Corporate Members and Industry Partners of ISCO can submit news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. This is a free facility for Corporate 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 organisation.**

If you have some news you would like to share with readers of the ISCO Newsletter, send it to [John.McMurtrie@spillcontrol.org](mailto:John.McMurtrie@spillcontrol.org)

## SPILLCON 2023 - CUSTOM SPONSOR: ORCA

The Spillcon team is delighted to announce that the first custom sponsor for Spillcon 2023 has been confirmed as the [Oil Response Company of Australia Pty Ltd](#). ORCA will once again sponsor our lanyards – as they have for many past Spillcons.

ORCA’s mission is *To provide a complete, professional and timely service to our clients covering all aspects of marine pollution response and preparedness in a safe, efficient and cost-effective manner to world’s best practice.*

In order to achieve this, *ORCA train the state and national response teams for large and small spills all over Australia and are the leading response agency for many private and government agencies. ORCA also have dedicated spill responders that can be at any spill small or large anywhere in Australia in 24 hours or less.*

Sponsors are essential for the success of Spillcon 2023.

If you would like more information on sponsorship opportunities please contact [Nicky Reading](#). [Oil Response Company of Australia Pty Ltd](#)

## OSRL - EXERCISE WITH US

There are many opportunities throughout the year to update and test your competence with us through major exercises developed to focus on four core capabilities. OSRL Members are welcome to join any of our exercises at our Southampton, Singapore and Fort Lauderdale bases. Go to the [Global Exercise Planner](#) for more information.

## SCIENCE & TECHNOLOGY

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

## STUDY: PLANTS OFFER BETTER SOIL, WATER DETOX

July 19 - Phytoremediation, or the use of plants and soil microbes to remove toxic contaminants in the environment, may offer Nepal an affordable way to deal with heavy metals like lead, mercury as well as arsenic that are frequently found in the country's

Soil and water, researchers say.

In a review, published July in *Chemosphere*, the researchers note that the global economic impact of heavy metal pollution is estimated at more than US\$10 billion per year, with the risks and effects magnified in developing countries because of limited resources and treatment technologies. *PhysOrg* / [Read more](#)

### PLASTIC-EATING BACTERIA GROW QUICKLY IN LAKES

July 27 - In a study of bacterial populations from 29 Scandinavian lakes, scientists found that some bacteria grow quickly and efficiently on the remains of plastic bags. Their findings may help inform plastic pollution remediation efforts.

The study was led by Andrew Tanentzap, PhD, a professor of global change ecology at the University of Cambridge. His team's findings were published in the journal *Nature Communications* ("Plastic pollution fosters more microbial growth in lakes than natural organic matter"). *Genetic Engineering & Biotechnology News* / [Read more](#)

### HOW TO PUT AN END TO 'FOREVER CHEMICALS' AND ANNIHILATE PFAS POLLUTION

July 28 - The controversial class of highly fluorinated chemicals known as per- and polyfluoroalkyl substances (PFAS), which are persistent and potentially toxic, has essentially become a new part of the Earth's ecosystem. There are estimated to be around 8000 different types of PFAS out there – found in the atmosphere, rain, surface water, groundwater and even people – but technological developments now offer to break this cycle.

[Editor: This article by Rebecca Trager discusses various technologies, including one developed by the global R&D organisation Battelle which has adapted supercritical water oxidation technology to develop what it calls the PFAS Annihilator. She also reviews other recent work by US universities and scientists to address the PFAS problem.] *Chemistry World* / [Read the article](#)

### RESEARCHERS IDENTIFY FUNGUS FOR PYRENE REMEDIATION

August 1 - Researchers at the Council of Scientific & Industrial Research-Indian Institute of Petroleum (CSIR-IIP), Dehradun, have identified a fungus capable of removing toxic, recalcitrant, and carcinogenic polycyclic aromatic hydrocarbons (PAHs) from the environment.

The researchers at IIP identified a white-rot fungus *Trametes maxima* IIPLC-32, which has the potential to cause microbial degradation of pyrene. According to researchers, growing on dead plants, this fungus causes pyrene degradation using special enzymes. *Down to Earth* / [Read more](#)

## RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS



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

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

#### 93. Early life-stage Deepwater Horizon crude oil exposure induces latent osmoregulatory defects in larval red drum (*Sciaenops ocellatus*) Bonatista

F., Khursigara, A.J., Ackerly, K.L., Esbaugh, A.J., Mager, E.M. (2022)  
*Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, 260, art. no. 109405,  
DOI: 10.1016/j.cbpc.2022.109405

**ABSTRACT:** Crude oil is known to induce developmental defects in teleost fish exposed during early-life stages (ELs). A recent study has demonstrated that zebrafish (*Danio rerio*) larvae acutely exposed to Deepwater Horizon (DHW) crude oil showed transcriptional changes in key genes involved in early kidney (pronephros) development and function, which were coupled with pronephric morphological defects. Given the osmoregulatory importance of the kidney, it is unknown whether ELS effects arising from short-term crude exposures result in long-term osmoregulatory defects, particularly within estuarine fishes likely exposed to DWH oil following the spill. To address this knowledge gap, an acute 72 h exposure to red drum (*Sciaenops ocellatus*) larvae was performed using high-energy water-accommodated fractions (HEWAFs) of DWH weathered oil to analyze transcriptional changes in genes involved in pronephros development and function by quantitative PCR. To test the latent effects of oil exposure on osmoregulation ability, red drum larvae were first exposed to HEWAF for 24 h. Larvae were then reared in clean seawater for two weeks and a 96 h



acute osmotic challenge test was performed by exposing the fish to waters with varying salinities. Latent effects of ELS crude oil exposure on osmoregulation were assessed by quantifying survival during the acute osmotic challenge test and analyzing transcriptional changes at 14 dpf. Results demonstrated that ELS crude oil exposure reduced survival of red drum larvae when challenged in hypoosmotic waters and that latent transcriptional changes in some target pronephric genes were evident, indicating that an affected kidney likely contributed to the increased mortality.

#### **94. The fingerprint stability of the biomarker hopanes and steranes in soot emissions from in-situ burning of oil**

Yin, F., He, Z., Song, Z., Su, P., Zhang, L., Feng, D., Yang, T. (2022)  
Science of the Total Environment, 839, art. no. 156273,  
DOI: 10.1016/j.scitotenv.2022.156273

**ABSTRACT:** The behavior of emissions is an important concern of in-situ burning (ISB) of spilled oils. In particular, the heavy soot originated from ISB can negatively impact the atmospheric environment. To track the behavior of ISB soot, the conservative biomarkers, such as hopanes and steranes, can be potentially used. In this study, the stability of chemical fingerprints of hopanes and steranes in the ISB soot were investigated based on the burning of two different types of oils, including one ultra-light condensate (i.e., surrogate Sanchi condensate) and one heavy oil. The results indicate that the chromatographic patterns and diagnostic ratios of hopanes and steranes in the ISB soot emissions almost remain identical to their corresponding source oils, proving the various oil source identification of ISB soot can be realized. This work attempts to provide novel insights into the application of biomarkers in the management of ISB emissions.

#### **95. Microplastic and oil pollution in oceans: Interactions and environmental impacts**

Yang, M., Zhang, B., Xin, X., Lee, K., Chen, B. (2022)  
Science of the Total Environment, 838, art. no. 156142, .  
DOI: 10.1016/j.scitotenv.2022.156142

**ABSTRACT:** Microplastics (MPs) have been found in oil-polluted oceans, but studies on MPs and oil were still focused on their respective transport, biodegradation, and bioaccumulation. The interactions between MPs and oil in the marine environment remain unknown. MPs would incorporate with oil to

form MP-oil agglomerate (MOA), the behaviors of MOA were thus discussed in this study. It was found that the MOA formation resulted in the decreased oil dispersion efficacy and affect marine oil spill response operations. Moreover, oil biodegradation rate would be changed when oil existed as the form of MOA. The slow vertical transport of MOA might lead to wider ocean contamination. MOA would cause much worse impacts on phytoplankton, zooplankton, and high trophic species in the marine environment than MPs or oil individually. MOA assembling with phytoplankton in oceans may reduce carbon dioxide (CO<sub>2</sub>) transport to deep seas. Exploring the interactions between MPs and oil in the marine environment opened a door for understanding MPs and oil as co-contaminants.

#### **96. Development of advanced oil/water separation technologies to enhance the effectiveness of mechanical oil recovery operations at sea: Potential and challenges**

Liu, B., Chen, B., Ling, J., Matchinski, E.J., Dong, G., Ye, X., Wu, F., Shen, W., Liu, L., Lee, K., Isaacman, L., Potter, S., Hynes, B., Zhang, B. (2022)  
Journal of Hazardous Materials, 437, art. no. 129340,  
DOI: 10.1016/j.jhazmat.2022.129340

**ABSTRACT:** Mechanical oil recovery (i.e., booming and skimming) is the most common tool for oil spill response. The recovered fluid generated from skimming processes may contain a considerable proportion of water (10 % ~ 70 %). As a result of regulatory prohibition on the discharge of contaminated waters at sea, vessels and/or storage barges must make frequent trips to shore for oil-water waste disposal. This practice can be time-consuming thus reduces the overall efficiency and capacity of oil recovery. One potential solution is on-site oil-water separation and disposal of water fraction at sea. However, currently available decanting processes may have limited oil/water separation capabilities, especially in the presence of oil-water emulsion, which is inevitable in mechanical oil recovery. The decanted water may not meet the discharge standards and cause severe ecotoxicological impacts. This paper therefore comprehensively reviews the principles and progress in oil/water separation, demulsification, and on-site treatment technologies, investigates their applicability on decanting at sea, and discusses the ecotoxicity of decanted water in the marine environment. The outputs provide the fundamental and practical knowledge on decanting and help enhance response effectiveness and consequently reducing the environmental impacts of oil spills.

#### **97. Exploring the effects of substrate mineral fines on oil translocation in the shoreline environment: Experimental analysis, numerical simulation, and implications for spill response**

Feng, Q., An, C., Chen, Z., Zhang, Y., Owens, E., Lee, K., Li, B., Taylor, E., Wang, Z. (2022)  
Journal of Hazardous Materials, 437, art. no. 129341,  
DOI: 10.1016/j.jhazmat.2022.129341

## RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

**ABSTRACT:** Mineral fines act a pivotal part in determining the fate and behavior of oil. In this study, the infiltrations of oil emulsion in simulated sediments and natural shoreline sediments were investigated using a fixed bed experiment. Oil infiltration process was simulated based on fixed-bed dispersion model. The role of mineral fines in oil release was explored using simulated and natural sediments. Although mineral fines exhibited a higher affinity for oil, it was found that increasing fines fractions decreased the flow rate of oil emulsion, thereby decreasing the oil retention in the sediment column. In terms of oil release from the sediment, the highest level of oil mass was observed in the oil-mineral flocculation phase compared to the water column and the water surface compartments. Compared to light crude oil, the release of engine oil from sediment was less. The effects of mineral fines on oil infiltration and release were also confirmed by using natural shoreline sediments. Results of our detailed field studies also showed that current shoreline classification datasets do not characterize the presence and fraction of mineral fines at a level of detail required to accurately predict the significance of oil translocation following spill incidents.

### 98. Pyrene drives reduced brain size during early life exposure in an estuarine fish, the red drum (*Sciaenops ocellatus*),

Khursigara, A.J., Ackerly, K.L., Esbaugh, A.J. (2022)

Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 259, art. no. 109397,

DOI: 10.1016/j.cbpc.2022.109397

**ABSTRACT:** Crude oil and the constituent polycyclic aromatic hydrocarbons (PAHs) induce a consistent suite of sub-lethal effects in early life stage fishes. It has been suggested that 3-ring PAHs drive cardiotoxicity and that all other impacts are downstream consequences of these cardiac effects. However, recent studies have documented behavioral alterations that may not be linked to cardiotoxicity. This raises the question of whether the 3-ring PAHs that drive cardiotoxicity are also responsible for the observed neurological impairments. To explore this question, we exposed embryonic red drum (*Sciaenops ocellatus*) – a species that exhibits greater sensitivity to craniofacial malformations than cardiotoxicity – to individual 2-ring, 3-ring, and 4-ring PAHs for 48 h after which they were assessed for sub-lethal developmental malformations. No effects were observed following exposure to naphthalene, anthracene, dibenzothiophene, phenanthrene and fluorene at doses equivalent to the  $\Sigma$ PAH50 effective concentration 50 for craniofacial malformation in red drum. Conversely, pyrene caused complete lethality at the original dose, and a 5 $\times$  diluted dose resulted in significantly reduced brain size and spine length. Similar sub-lethal effects were also observed in chrysene at the 1 $\times$  dose. These results indicate that 4-ring PAHs are driving malformations in developing red drum and suggest oil induced impairments in this species are not a downstream consequence of 3-ring PAH induced cardiac malformations.

## 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>
- 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](https://www.ahmpnet.org/events/event_list.asp)

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

### CERTIFICATE IN COMBATTING MARINE & AIR POLLUTION FROM SHIPPING

From Lloyds Maritime Academy - over 12 weeks (Part-time), Starting 23 August 2022. [More info](#)

### CERTIFICATE IN MARITIME SAFETY MANAGEMENT & THE ISM CODE

From Lloyds Maritime Academy - Course commences 28th September 2022. [More info](#)

### USA: OHMSETT - OIL SPILL RESPONSE STRATEGIES & TACTICS TRAINING

During the 3 ½ days of training, you will learn the strategies and tactics for successful spill response operations. Course Topics: Factors affecting oil spill movement + Fates & effects of spilled oil + Oil skimmer & containment boom selection & use + Booming & recovery strategies + Site safety planning + Incident Command System (ICS) + Alternative response techniques + Shoreline Characterization (Introduction to SCAT) + And More! September 20 - 23, 2022 - Tuesday - Thursday: 8:00 AM - 4:00 PM Friday: 8:00 AM - 1:00 PM; [Register](#)

### FREE ONLINE SPCC TRAINING

HalenHardy's Oil Handler Annual Refresher Training is divided into six easy-to-digest microlearning modules. [More info](#)



## UPCOMING EVENTS

**WE HAVE CHANGED THE ISCO WEBSITE UPCOMING EVENTS PAGE. IN ADDITION TO UPCOMING CONFERENCES, EXHIBITIONS AND MEETINGS, ENTRIES NOW INCLUDE WEBINARS, SEMINARS, ETC. WHICH WERE FORMERLY ON A SEPARATE WEBSITE PAGE.**

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

To see ALL of the posted events you will need to click on “LOAD MORE” at the foot of each opened “upcoming events” page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event organisers before finalising your attendance plans. Please advise the Editor if any of the entries require correction or updating. If you are holding an event you would like to be featured here, please send details to [John.mcmurtrie@spillcontrol.org](mailto:John.mcmurtrie@spillcontrol.org)

### NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- **HalenHardy - Top Industrial Stormwater Pollutants and Simple Ways to Capture Them, Webinar on Wednesday 10<sup>th</sup> August 2022 at 10 am EST**
- **OSRL: TPR Wheel Seminar Series - Inland Response Seminar, Thursday 18<sup>th</sup> August 1400 BST**
- **OSRL: TPR Wheel Seminar Series – Shoreline Assessment Technique (SCAT) , Wednesday 28<sup>th</sup> September 1400 BST**

### RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- **France -Cedre: Sea Tech Week 2022 Marine Science & Technology Conference, 26 – 30 September, Brest**
- **Canada - Newfoundland & Labrador, Econext Conference, October 20, 2022**
- **USA & Canada - The Pacific States / British Columbia Task Force 2022 Annual Meeting, Online Nov. 2, 2022;**
- **Introduction to the Transport of Hazardous Goods by Road, Online, 26-27 July 2022**
- **Italy – ECOMONDO Green Technology Expo. November 8-11, 2022, Rimini, Italy.**

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

## MESSAGES FROM EVENT ORGANISERS

### USA: CLEAN PACIFIC – AUGUST 23-24

CLEAN PACIFIC is Only One Month Away! The 2022 CLEAN PACIFIC Conference is just one month away and we haven't seen you register! Make plans to join your peers from the Pacific Northwest to share experiences and discuss solutions to response challenges for oil and hazardous spills and environmental emergencies specific to the Pacific region. This year's event is set to be bigger and better with two full days of content, new exhibiting companies and over 250 in attendance! Registration rates increase by \$100 after 8/19/2022. [Download the brochure](#) [Registration](#) [networking-oriented sponsorship opportunities](#)

### INDIA: SPILLTECH CONFERENCE & EXHIBITION, 21-23 SEPTEMBER, 2022

To support the Sustainable Development Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development, SpillTech will cover a wide range of topics revolving around prevention, mitigation & probable solutions to save the environment from any catastrophic disasters. Apart from the policy & regulatory updates, the event topics will revolve around oil & chemical spills, Ocean Debris, Waste & Solid waste management, Shoreline cleanup, Risk mitigation & a few more.

For ISCO Members a 10% discount on Registration Fee. <http://spilltech.org/> [Download event brochure](#) [Submit you abstract](#)

### FRANCE: SEA TECH WEEK 2022

Sea Tech Week®, Marine Science & Technology Conference - 26-30 September 2022, Brest, France – More info - <https://www.seatechweek.eu/>

### CANADA: INTERNATIONAL OIL SPILL SCIENCE CONFERENCE 2022 – OCTOBER 4-7

IOSSC 2022 REGISTRATION IS OPEN -Attendees will be able to connect with the oil spill response community, government, industry, and academia to work together to deal with the challenges in the field of oil 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.

Register before August 31, 2022 to pay our early bird rates. [Preliminary Conference Programme](#) [Registration](#) Website: <https://sites.events.concordia.ca/sites/mpri/en/international-oil-spill-science-conference-2022/>

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

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

## MESSAGES FROM EVENT ORGANISERS (CONTINUED)

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

Welcome and Opening Keynote (Open to All Attendees) WEDNESDAY, NOVEMBER 8 10:45 AM - 12:15 PM - Kevin M. Sligh Sr. MBA, CEM, Director, Bureau of Safety and Environmental Enforcement (BSEE)

Kevin M. Sligh Sr. is the Director of the Bureau of Safety and Environmental Enforcement, Department of Interior. He joined BSEE on March 28, 2022, and leads the bureau in its mission to promote safety, protect the environment and conserve offshore energy resources through the regulatory oversight and enforcement.

Check out this year's program and commit to joining your peers in spill prevention and response this November. **Early Bird Discounts Expire on Friday 12<sup>th</sup> August** [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

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

Let's meet at Ecomondo! [Log in to the reserved area, fill in your data, download your ticket](#)

### 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>

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

The green shift challenges: New oils and new energy carriers. Marine littering. Biological threats [Registration](#)

### USA: CLEAN WATERWAYS 2023: 11-13 APRIL, 2023

Now Open: CLEAN WATERWAYS 2023 Call for Presentations, The CLEAN WATERWAYS program is developed by a government/industry-based committee of approximately 45 professionals, and the committee is looking for leaders to help shape the conference. All abstracts submitted are reviewed for content and relevance by the committee and are selected by consensus. Abstracts will be accepted for consideration until Thursday, August 25th.

CLEAN WATERWAYS serves the spill response industry in prevention, preparedness and response in the inland environment. It delivers a forum for attendees to come together to discuss case studies and lessons-learned from both recent and past incidents, discover the latest technologies advancing the industry and build relationships with all parties involved in a response. The 2023 Conference will take place in Denver, CO, April 11-13. [Call for abstracts and more info](#)

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

We are delighted to announce that 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@aip.com.au](mailto:spillcon@aip.com.au)

## CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

### INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

### OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/> US EPA Tech Direct <https://clu-in.org/techdirect/archive/> and USA Federal Contracts Update <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>



## LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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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. ISCO is currently looking for a volunteer to take care of maintaining, improving and updating this page.

## NEW PUBLICATIONS

### CONCAWE: PETRORISK VERSION 8.01 USER MANUAL – REPORT 14/21

PetroRisk calculates the environmental exposures and risks resulting from the different lifecycle stages of multi-constituent hydrocarbon substances, using the principles provided by the European Chemical Agency (ECHA) under the EU REACH regulation. Environmental exposures and risks can be predicted at the manufacture/formulation/distribution stages and at industrial/professional/ consumer use stages for multi-constituent hydrocarbon substances, such as naphthas (gasolines), kerosenes, gas oils, heavy fuel and lubricant oils, and solvents. PetroRisk version 8.01, including its Generic Exposure Scenario (GES) scaling tool, can be downloaded free-of-charge from our website. [https://www.concawe.eu/wp-content/uploads/Rpt\\_22-14.pdf](https://www.concawe.eu/wp-content/uploads/Rpt_22-14.pdf)

### EMSA: NEWSLETTER AUGUST 2022

In this issue: Latest statistical review from EMSA offers insight into European labour market for seafarers; EMSA gives keynote address at opening of Coast Guard Global Summit; EMSA contracted Oil Spill Recovery Vessel AKTEA II enters into stand-by service for pollution response; The Blue Data Warehouse: smarter data management for more in-depth and targeted insights; European cooperation on coast guard functions: EMSA hosts steering committee with sister agencies EFCA and Frontex; Theory and practice come together in tabletop exercise on Places of Refuge for ships in need of assistance; Special LNG bunkering workshop held for Portuguese Administration. <https://www.emsa.europa.eu/newsroom/latest-news/item/4802-newsletter-august-2022.html>

### GEF: NEWSLETTER AUGUST 2022



A selection of news and information from across GEF member governments, agencies, and other partners. Includes articles and reports from around the world on activities of the Global Environmental Facility.

<https://mailchi.mp/8e4ec03f0687/news-and-updates-across-the-partnership-august-2022-newsletter?e=71dc7897d2>

## JOB OPPORTUNITIES

### IPIECA IS LOOKING FOR A SUSTAINABILITY RESEARCH INTERN

Title: Sustainability Research Intern

Location: Ipieca London office, Basinghall Street, London EC2V 5DE (with agile working available)

Duration: 6 months For more info visit <https://spillcontrol.org/job-vacancies/>

### USA: LOUISIANA - COAST GUARD RESPONDS TO OIL DISCHARGE FROM TANKER ON MISSISSIPPI



*Photo: Coast Guard Sector New Orleans personnel respond to a discharge of oil on the Lower Mississippi River near Kenner, Louisiana on July 28, 2022. The tanker ship Hafnia Rhine discharged an estimate of 2,100 gallons of oil before its crew secured the source of the discharge. (U.S. Coast Guard courtesy photo by Sector New Orleans)*

July 30 - Coast Guard Sector New Orleans watchstanders received notification yesterday at 6:08 p.m. that the tank vessel Hafnia Rhine discharged oil during a fueling operation with a fuel barge at Ama Anchorage, mile marker 115.

Watchstanders dispatched Coast Guard pollution responders to the scene. The crew of the Hafnia Rhine secured the oil discharge, but Sector New Orleans pollution investigators estimated up to 2,100 gallons of fuel oil entered the water and contaminated approximately 50-60 barges in the vicinity.

The National Response Corporation and Environmental Safety and Health Consulting Services were hired as oil spill removal organizations. The OSROs have placed 2,700 feet of containment boom and 3,320 feet of sorbent boom around the affected area including the contaminated vessels and have utilized the use of sorbents to recover oil product. gCaptain / [Read more](#)

### JAMAICA: SAMUDA HEADS MULTI-AGENCY PROBE INTO LATEST CHEMICAL SPILL WHICH LED TO RIO COBRE FISH KILL

July 31 inister without portfolio in the Ministry of Economic Growth and Job Creation, Matthew Samuda, is heading the investigation into an alleged chemical spill in the Rio Cobre. A delegation visited the site earlier today to assess the environmental and social impact of the recent fish kill. Jamaica Observer / [Read more](#)

### JAPAN: VIDEO: JAPANESE CONTAINER FEEDER CAPSIZES AT THE PIER

July 31 - The vessel's cargo went over the side, and while the majority remained next to the pier, a few containers went adrift in the harbor. The Tokuyama station of the Japan Coast Guard has advised shipping to be aware and alert for floating cargo. A small quantity of heavy fuel oil leaked from the vessel, and a light sheen is visible in aerial video obtained by local media, but no major spill has been reported. The Maritime Executive / [Read more](#)

### USA: MICHIGAN - OFFICIALS ISSUE HURON RIVER WARNING AFTER CHEMICAL SPILL FROM WIXOM SEWAGE PLANT

**August 2** - State officials are urging the public to avoid all contact with Huron River water in a stretch of the river in Oakland and Livingston counties, after learning of a company's release of potentially harmful hexavalent chromium into the Wixom sewer treatment system that outflows into the river. Detroit Free Press / [Read more](#)

**August 4** - More tests still showing no contamination from chemical spill in Huron River - Test results from nine surface water samples taken Wednesday, Aug. 3, downstream of a release of hexavalent chromium into the Huron River system showed no detectable presence of the carcinogen. The state is still recommending that people and pets not swim in, wade in, play in or drink water directly from the Huron River between North Wixom Road in Oakland County and Kensington Road in Livingston County. The Oakland Press / [Read more](#)

### PHILIPPINES: CITY WARNS OF CHEMICAL SPILL IN DAVAO RIVER

**August 2** - Authorities have warned the public to refrain from any water activities in Suawan River here due to a chemical spill caused



## INCIDENT REPORTS (CONTINUED)

by a tanker truck that fell from a ravine near a tributary in Marilog District Tuesday. PNA / [Read more](#)

**August 3** - Activities barred on 3 Davao rivers hit by chemical spill - The city government has warned the public to keep off from three local tributaries after a truck loaded with caustic chemical fell into a ravine near Suawan River in Marilog District here on Tuesday. PNA / [Read more](#)

### CANADA: REFINERY SPILLS DIESEL INTO ST. CLAIR RIVER

August 4 - An unknown amount of petrochemicals spilled into the St. Clair River from a refinery in Canada during heavy rainfall Wednesday night. An overflow in Suncor's Sarnia refinery's internal sewer system left a sheen on the river that caused officials on both sides of the international border to close off drinking water intakes. But Canadian authorities cleared water plants to return to normal activity Thursday morning. Michigan Live / [Read more](#)

### NIGERIA: SHELL SHUTS FLOATING CRUDE OIL STORAGE FACILITY IN BAYELSA

August 4 - A Shell Floating Production Storage and Offloading (FPSO) vessel operating off Bayelsa coastline, has been shut down due water leakage, an official has said. SPDC Spokesman, Mr Michael Adande who disclosed this in a statement on Thursday, said the vessel has been safely anchored for repairs. "An emergency response team has been successfully activated to respond to the incident and to contain the water inflow," he said. 21<sup>st</sup> Century Chronicle / [Read more](#)

## STOP PRESS – BREAKING NEWS

### CUBA: MAJOR FIRE AND OIL SPILL IN MATANZAS



**August 7 – A report just received from Carlos Sagrera, MSc. ISCO Representative in Latin America**



"A fire of great proportions occurred on the night of Friday, August 5, in a crude oil storage tank in the town of La Matanza, located 100 km east of La Habana. As indicated, it had 26,000 m<sup>3</sup> of crude oil at the time of the incident. The place is known as the Matanzas Supertanker Base and according to the Ministry of Energy and Mines the cause would have been a lightning strike due to an electrical storm and the eventual failure of the lightning rods installed there. There were two strong explosions and on Saturday August 6 the fire spread to another adjoining tank (there are 8 in total with a capacity of 52,000 m<sup>3</sup> each), with which the situation worsened. According to the Provincial Government there were 77 people on Saturday afternoon with injuries and burns of various considerations and about 20 missing

firefighters. Late in the afternoon, the first confirmation of a firefighter who had died from burns and explosions was reported. Several governments allied with Cuba in the region offered their specialized support (Mexico and Venezuela). Links iwith news from the Cuban press" -

<https://www.prensa-latina.cu/2022/08/06/compleja-situacion-en-matanzas-cuba-tras-incendio>

<https://www.radiotelevisionmarti.com/a/peligro-de-gases-t%C3%B3xicos-cuba-ordena-evacuaciones-masivas-tras-incendio-en-dep%C3%B3sitos-de-petr%C3%B3leo/331449.html>

<http://www.cubadebate.cu/noticias/2022/08/06/se-extiende-incendio-de-grandes-proporciones-en-matanzas-con-decenas-de-lesionados/>

**More photos received from Carlos Sagera, MSc. ISCO Representative in Latin America**



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