

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 COMMITTEE & COUNCIL

ISCO is managed by an EXECUTIVE Directors

- Mr David Usher, President (USA)
- Mr Matthew Sommerville, Secretary (UK)
- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalgleish, VP M'ship (USA)

Members

- Mr Li Guobin (China)
- M. Jean Claude Sainlos (France)
- Mr Kerem Kemerli (Turkey)
- Mr Marc Shaye (USA)
- Mr Dan Sheehan (USA)
- Captain Bill Boyle (UK)
- Lord Peter Simon Rickaby (UK)

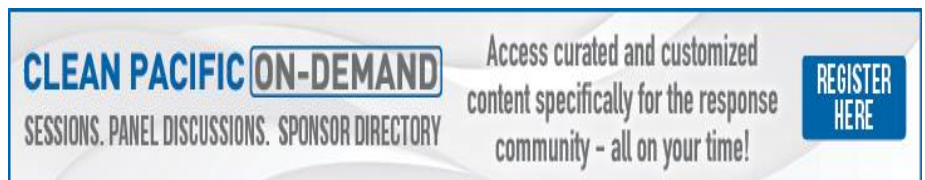
Assisted by COUNCIL

(National Representatives)

- Mr John Wardrop (Australia)
- Mr Osman Tarzumanov (Azerbaijan)
- TBA (Brazil)
- Dr Merv Fingas (Canada)
- Captain Davy T. S. Lau (China)
- Mr Darko Domovic (Croatia)
- Eng. Ashraf Sabet (Egypt)
- Mr Torbjorn Hedrenius (Estonia)
- Mr Pauli Einarsson (Faroe Islands)
- TBA (Greece)
- Captain D. C. Sekhar (India)
- Major Ben Benny (Israel)
- Mr Sanjay Gandhi (Kenya)
- Mr Dennis van der Veen (Netherlands)
- Chief Kola Agboke (Nigeria)
- Mr Carlos Sagrera (Panama)
- TBA (Singapore)
- Mrs Fatima B. Shaik (South Africa)
- Dr Ali Saeed Al Ameri (UAE)
- Mr Kevin Miller (UK)
- Dr Manik Sardessai (USA)

INTERNATIONAL NEWS

CLICK ON THE BANNERS BELOW FOR MORE INFO ON THE EVENTS FEATURED



CLEAN PACIFIC ON-DEMAND
SESSIONS. PANEL DISCUSSIONS. SPONSOR DIRECTORY

Access curated and customized content specifically for the response community - all on your time!

REGISTER HERE



CLEAN WATERWAYS

SPILL PREVENTION, RESPONSE & HAZARDOUS MATERIALS MANAGEMENT FOR INLAND REGIONS & WATERWAYS

Use VIP code **ISCO** to save \$100 on your registration

AUGUST 3-5, 2020
JW Marriott Indianapolis
INDIANAPOLIS, IN



CLEAN GULF
CONFERENCE & EXHIBITION

Celebrating **30** YEARS

OCTOBER 20-22, 2020
Henry B. Gonzalez Convention Center | San Antonio, TX

SAVE \$100 ON REGISTRATION WITH VIP CODE ISCO

MAR-ICE SERVICE EXPANDED TO PROVIDE ADDITIONAL SUPPORT FOR CHEMICAL EMERGENCIES AT SEA

The European Maritime Safety Agency (EMSA) together with the European Chemical Industry Council (Cefic) and the Centre of Documentation, Research and Experimentation on Accidental Water Pollution (Cedre), recently amended their three-party Cooperation Agreement, expanding the MAR-ICE service to provide an additional level of support when dealing with chemical emergencies at sea.

Shared objectives - The three organisations have been co-operating since 2008, when they first established the network of chemical experts called "MAR-ICE network," which aims to strengthen information transfer on chemical substances involved in maritime pollution emergencies in EU waters. The purpose of this network is to provide, upon request and through a single contact point, the member states of the European Union and the coastal states of the European Free Trade Association (EFTA) with product-specific information on chemicals involved in marine pollution incidents, by contacting experts in chemical companies who are familiar with the substance(s) involved.

A new on-site expert support - With this recent MAR-ICE service expansion, if so requested, a knowledgeable expert from the chemical industry holding

MEMBERSHIP OF ISCO

[Benefits of Membership](#)

[Online Membership Application Form](#)

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 Student Membership, Associate Membership (AMISCO), MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

[About Professional Membership](#)

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

TO RECEIVE THE FREE ISCO NEWSLETTER

Go to www.spillcontrol.org and enter your name and email address in the Registration Form (located on the right-hand side of the home page) then click on "subscribe"

INTERNATIONAL NEWS (CONTINUED)

relevant know-how may be made available to provide advice and assistance on-site at the operational centre of the requesting country dealing with the response operations (MAR-ICE 'level-2'), strengthening the information and advice already provided remotely by the network (MAR-ICE 'level-1'). The new on-site expert support can be particularly useful during complex or long-lasting incidents involving chemical or hazardous substances. This is in line with the type of on-site expertise provided by the chemical industry for land-based chemical transport incidents and aims to increase the level of expert emergency support made available to EU countries dealing with maritime chemical emergencies. Having rapid and direct access to a chemical expert who can provide and clarify relevant information on chemical substances is of paramount importance and through the MAR-ICE service, this is made available 24/7 across the EU. CEDRE / [Read more](#)

RUSSIA AND THE UNITED STATES HAVE PLANNED JOINT EXERCISES IN THE BERING STRAIT

The Russian Maritime rescue service and the US Coast guard are going to conduct large-scale search and rescue exercises, said Mark Everett, incident management adviser for the 17th Coast guard district. He said that in the "bilateral two-year work plan, there are plans to move to full-scale exercises in the Bering Strait area."

The last time Russia and the United States conducted such exercises was in 1998. It is emphasized that such exercises are highly complex, so a well-thought-out organization is necessary, which may take several years to prepare.

At the same time, Natalia Kutaeva, an adviser to the head of Morspas, said that the Russian service "is going to organize and conduct communication exercises this fall." The ISS will give the American side a specific date, but "tentatively plans to hold these exercises in October." Kutaeva stated that "the overall aim should be large-scale exercises on liquidation of consequences of oil spills."

And Kutaeva and Everett gave a high assessment of the Russian-US joint contingency plan for combating pollution in the Bering and Chukchi seas. FN Free News / [Read more](#)

ENHANCING CO-OPERATION ON MARINE ENVIRONMENTAL PROTECTION WITH THE COUNTRIES OF EAST ASIA

The Northwest Pacific Action Plan (NOWPAP) further explored the possibilities of cooperation with the East Asian countries in the field of marine environmental protection at the 12th East Asian Seas (EAS) Partnership Council virtual Meeting on July 22, 2020.

The Meeting discussed a mid-term review of the Sustainable Development Strategy of the Seas of East Asia (SDS-SEA), the organization of the East Asian Seas Congress 2021, as well as a further partnership building.

The 12th PEMSEA Partnership Council Meeting - As an invited long-term partner, NOWPAP used this opportunity to highlight its enthusiasm for establishing further synergies with PEMSEA in marine environmental protection. NOWPAP has also confirmed its focuses for the 2020-2021 biennium, as approved by the NOWPAP Member States. The key areas of interest included ecosystem-based integrated coastal and river basin management, marine and coastal environment assessment, pollution prevention and reduction, and biodiversity conservation. Northwest Pacific Action Plan / [Read more](#)

ARCTIC GOVERNANCE: KEEPING THE ARCTIC COUNCIL ON TARGET

This June has been unsettling for the Arctic. Russia experienced three events the Arctic Council has been dreading for years: [an oil spill](#), an [outbreak of wildfires](#), and the [hottest Arctic temperature record](#) being set with a 100-degree Fahrenheit day in Siberia. However, Russia is not alone in addressing these events. The Arctic Council, the Arctic's premier multilateral organization, has sought to prepare the region and the globe for the eventuality of a warmer Arctic.

These recent events bring into focus both the work the Council has done to promote regional governmental frameworks and the long road that remains ahead for fulfilling its mission of monitoring the Arctic environment. The Council has not been idle since its

INTERNATIONAL NEWS (CONTINUED)

founding in 1996 and is continually promoting active measures to ensure the Arctic environment is protected as the region warms and opens to increased economic activity, with a host of working groups, agreements, and [policy recommendations](#) coming forward to address concerns like oil spills and sea ice retreat. This summer represents a major test of the Arctic Council as these crises come at a time when the Arctic Council is being pulled in directions it would rather avoid. Tensions are rising between the two most powerful states on the Council, the United States and Russia, and [calls to direct the Council](#) to address rising Arctic militarization have grown from prominent leadership. CIMSEC / [Read more](#)

U.N. STILL WAITING FOR HOUTHY APPROVAL TO VISIT DECAYING OIL TANKER OFF YEMEN

The United Nations said on Tuesday it was still waiting for Yemen's Houthi group to authorize deployment of an assessment team to a decaying oil tanker that is threatening to spill 1.1 million barrels of crude oil off the war-torn country's coast. Two weeks ago U.N. aid chief Mark Lowcock told the U.N. Security Council that Houthi officials had agreed to allow a U.N. team to conduct a technical assessment and whatever initial repairs might be feasible on the Safer tanker. Devdiscourse / [Read more](#)

STATUS OF THE 1992 FUND CONVENTION AND THE SUPPLEMENTARY FUND PROTOCOL

At the opening of the 25th session of the 1992 Fund Assembly in November 2020, 117 States will be Parties to the 1992 Fund Convention. Thirty-two States are Parties to the Supplementary Fund Protocol. IOPC Funds / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD (COUNTRIES LISTED IN ALPHABETICAL ORDER)

AUSTRALIA: TRAINING UPDATES

AMOSC now has an Online Learning Portal and we are offering our Course in Oil Spill Response Management (IMO II equivalent) and Course in Oil Spill Response Command & Control (IMO III equivalent) through three modes of delivery – online, blended and face-to-face. AMOSC has released a new training calendar and scheduled fees for 2020. AMOSC / [Read more](#)

CHINA: TOP LEGISLATOR STRESSES IMPLEMENTATION OF SOIL POLLUTION PREVENTION LAW

July 27 - China's top legislator, Li Zhanshu, has stressed efforts to promote the effective implementation of the law on soil pollution prevention and control in all areas.

Li, a member of the Standing Committee of the Political Bureau of the Communist Party of China Central Committee and chairman of the National People's Congress (NPC) Standing Committee, made the remarks on Monday in Beijing while presiding over a meeting of the inspection team for the enforcement of the law on soil pollution prevention and control. This round of law enforcement inspections is aimed at urging different regions and departments to obligate legal liabilities and step up cooperation to ensure the central authority's decisions and plans on ecological conservation are effectively implemented, Li said. Xinhua / [Read more](#)

INDIA: BAGHJAN BLOWOUT: EXPERT PANEL REPORT FINDS MAJOR LAPSES BY OIL INDIA

July 29 - The report of the expert panel constituted to look into the Baghjan oil well blowout and explosion has uncovered major lapses by state-owned Oil India Ltd (OIL) including lack of planning, execution and supervision of critical operations. The company did not even have the mandatory consent to operate and establish drilling operations, the panel has said.

"There was deficiency in understanding of the gravity of a critical operation like removal of BOP without having a confirmed and tested secondary safety barrier. There was deficiency in proper planning of critical operations. There was a clear mismatch between planning and its execution at site and deviations from the Standard Operating Procedure," the 406-page report of the panel has said.

It added that there were serious deficiencies of proper level of supervision of critical operation at the well site both from the contractor as well as from Oil India Ltd. Energy World / [Read more](#)



NIGERIA: SIX CONTRACTORS TO PILOT OGO NI WATER PROJECT

July 27 - In line with the recommendations of the United Nations Environment Programme (UNEP), six contractors are to be hired by the Hydrocarbon Pollution Remediation Project (HYPREP) for the provision of potable water in impacted communities within Ogoniland. The contractors were picked from six lots in the bids opened last week, and the companies will work across various locations in the four Local Government Areas of Ogoniland, to provide water in the next three to five weeks. Guardian / [Read more](#)

USA: ENVIRONMENTAL WORKING GROUP: HISTORIC POLYFLUOROALKYL SUBSTANCES INVESTMENTS PROPOSED IN HOUSE SPENDING BILLS

July 24 - Three spending bills proposed by the House will make historic investments to address the regulation and cleanup of the toxic fluorinated chemicals known as PFAS.

Spending bills for the Department of Defense and the Environmental Protection Agency will significantly increasing PFAS cleanup funding by the Pentagon, direct the EPA to accelerate efforts to restrict industrial discharges of PFAS, and also direct the EPA to complete efforts to designate PFOA and PFOS as hazardous substances.

"House leaders will once again make the PFAS contamination crisis a priority," said Scott Faber, senior vice president for government affairs at EWG. "This is a small but important down payment on what's needed to reduce and remediate PFAS pollution". Insurance News / [Read more](#)

PEOPLE IN THE NEWS

PEMSEA EXTENDS EXECUTIVE DIRECTOR'S TERM



Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) has extended the term of Ms. Aimee T. Gonzales as Executive Director of the PEMSEA Resource Facility (PRF) for another three years from 2021-2023. Ms. Gonzales was appointed Executive Director of the PRF last January 1, 2018.

The term extension follows the decision of the 12th East Asian Seas (EAS) Partnership Council Meeting held in July. The PRF Executive Director normally holds a fixed term contract of three years, but can be renewed not exceeding 10 years. PEMSEA / [Read more](#)

DIRECTOR OF THE REGIONAL MARINE POLLUTION EMERGENCY, INFORMATION AND TRAINING CENTRE – CARIBE AWARDED MEDAL OF HONOR BY U.S. COAST GUARD

The United States Coast Guard has conferred on Ms. Carla Bikker the Medal of Honor, Respect and Devotion to Duty for her 25 years of dedicated service as Operations Manager, and now newly appointed Director of the International Maritime Organization's (IMO) / United Nations Environment Programme's (UNEP) Regional Activity Center (RAC)/Regional Marine Pollution Emergency Information and Training Center (REMPEITC).

Ms. Bikker has supported eleven U.S. Coast Guard consultants' transition into their RAC position, assisted with residency, customs, household goods, translation, and a host of other support services. In addition, she trained each consultant on IMO guidelines and procedures, ensuring seamless transitions between consultants.

Since 1995, Ms. Bikker played a pivotal role as REMPEITC led transformative regional initiatives by fostering international cooperation, conducting capacity-building activities, and developing regional frameworks for integrated regional response to an oil spill incident. During this time, over 10,000 participants throughout the Wider Caribbean Region (WCR) have attended more than 350 REMPEITC workshops, conferences, exercises, and trainings. UNEP / [Read more](#)



NEWS FROM ISCO MEMBERS

BRIGGS MARINE REFURBISH HISTORIC LIGHTHOUSE

Last week, our Aids to Navigation team completed the refurbishment of Rubh' an Eun Lighthouse. The current Lighthouse was commissioned in 1911 and marks the entrance of the Firth of Clyde.



Last week, our Aids to Navigation team completed the refurbishment of Rubh' an Eun Lighthouse. The current Lighthouse was commissioned in 1911 and marks the entrance of the Firth of Clyde.

The location of the Lighthouse proved a challenge as it was remote with no road access. Therefore, all plant and equipment needed to be transported by vessel and lifted ashore, thankfully the weather was reasonably good and allowed this to happen.

The refurbishment included a full grit blast and paint, fiberglass works on the lantern room, installation of a new 12nm lantern and all electrical components. We also removed the old handrails and replaced them with new aluminium rails. Thanks to everyone involved for their hard work in completing another successful refurbishment. <https://www.briggsmarine.com/> [Thanks to Elkhan Mammadov]

SCIENCE & TECHNOLOGY

A REVIEW OF OIL SPILL DETECTION TECHNIQUES ON WATER



Photo: Satellite image of the Deepwater Horizon spill in the Gulf of Mexico. The white rectangle illustrates the oil spill, which can be difficult to distinguish against the various clouds in the photo. (Image courtesy of National Center for Biotechnology Information.)

We have seen some highly publicized oil spills lately—from the massive Russian oil disaster at Norilsk, to the Trans Mountain pipeline leak that occurred in June. Many of these petroleum accidents typically cost billions of dollars to clean up, and contribute significantly to the contamination of lakes, rivers and seas. With over 80,000 miles of oil pipelines running through the United States, this begs the question: how are spills even being monitored and detected?

Let's start by exploring recent innovations around the Smart Leak Detection on Water (SLED-W) system, which was unveiled just last month by the Southwest Research Institute (SwRI).

SLED-W is a computer-based machine learning solution that uses algorithms to combine visual and thermal data for the recognition of unique oil and water properties. This can be achieved cost-effectively by affixing inexpensive thermal and visible cameras to aircraft, stationary devices or watercraft.

"Labeling oil is a significant challenge," says Ryan McBee, the SLED-W project leader at SwRI. "For SLED-W, we had to account for different behaviors so it would know what to consider and what to ignore to avoid false positives."

Oil reacts with water in different ways; it can spread over water as a separate layer or it can mix together with water. This makes it challenging for sensors to detect oil leaks under a variety of weather conditions. Visible cameras have their limitations, and cannot always distinguish transparent oils that blend with water. Thermal sensors often show false positives near animals. By using a multidisciplinary approach involving machine learning algorithms, SLED-W analyzes different perspectives and evaluates the most relevant information from combined thermal and visual data—mitigating the weaknesses of each sensor on its own.

Editor – This article goes on to address Visual Imaging, Thermal Imaging, Laser Spectroscopy and Radar.

Engineering / [Continue reading this article](#)

ENGINEERED DATA, LLC ANNOUNCES THE WORLD'S 1ST FLOCCULANT FOR REMEDIATION OF PFAS CHEMICALS FROM WATER

Engineered Data LLC's Advanced Materials Group has begun micro-batch production of a Flocculant that remediates PFAS chemicals (as well as Toxic Heavy Metals + Phosphate [a main ingredient in Storm Water Pollution + Algae Tides]) from polluted water. Jar-testing samples are available to entities interested in applications testing advanced technologies that improve remediation performance.

The 3 conventional technologies for remediating PFAS chemicals from water are Activated Carbon, Ion Exchange Resins + High-Pressure Membranes. Today, a 4th technology is added to that list. Sourced from Military Research and scientifically classified as Nanoporous Iron Oxide ("NIO"), our Flocculant comes in 2 grades: NIO-G (premium) and NIO-C (standard).

Little published research on nanostructured sorbents like NIO exists. Hence researchers like the PFAS Specialists at The Interstate Technology Research Council (<https://pfas-1.itrcweb.org/>) tend to classify NIO as a Hybrid: part Nanofilter (NIO has nanometer-sized pores, but doesn't utilize membranes), part Flocculant (NIO removes colloids, not by single-function ionic aggregation, but by dual-function aBSorption + aDSorption).

Extraordinarily high surface area (one gram of NIO—enough surface area to cover 3.33 US football fields) and [2] concurrent micro + meso porous particle architecture (verified by independent lab: <https://www.synthetic-metals.com/Isotherm2019.pdf>) give NIO its accelerated remediation speed + increased capacity. For example, when tested against Phosphate in very high concentrations (+/-25mg/L: typical algae bloom phosphate concentrations hover below 5mg/L), NIO remediates more phosphate in 1 minute than National Science Foundation (NSF) Certified flocculants + sorbents can in 48 hours ... even when NSF flocculants + sorbents are given a 20X dosing handicap. Skeptical? Watch the video (<https://www.youtube.com/watch?v=UVFCLif0eqE>).

Univ. of Arizona + Rice University Researchers confirmed the efficacy of iron oxide (Fe2O3) nanoparticles for remediation of PFAS in 2012 (https://www.synthetic-metals.com/UnivArizona_PFOA-PFOS.pdf). Based on aggregate surface area comparisons, NIO (also Fe2O3) is estimated to be 17.5X more powerful than the nanoparticle mixture used in 2012. NIO is also safer than nanoparticles, as nanoparticles, once introduced into water, either dissolve or become suspended and disperse, becoming logistically impossible to recover. NIO safely sinks to the bottom of settling tanks for easy removal in as little as 30 minutes. NIO is projected to perform best against PFAS chemicals in environments where PFAS concentrations are highest and the pH level of water being treated can be adjusted below +/- 6.0.

For more information, go to <https://www.synthetic-metals.com>.

Send 2 Press Newswire / [Read more](#)

\$25 MILLION TO RESTORE NATURAL RESOURCES INJURED BY POLLUTION IN THE KALAMAZOO RIVER, MICHIGAN

An article by Megan Ewald, Office of Response and Restoration, originally published in December 2019 and reprinted here with the kind permission of NOAA OR&R.



Above: Kayakers on the Kalamazoo River, Michigan. Image credit: NOAA.

Canoeing down the Kalamazoo River under the shade of trees, watching small fish dart through the shallows, you wouldn't guess you're paddling through a hazardous waste site. Michigan, in many ways, is defined by freshwater. It borders four of the five Great Lakes, and Michigan's interior boasts thousands of inland lakes and river systems.

Many cultural and recreational opportunities are centered around these lakes and rivers. Friday night fish fries, floating down rivers in inner tubes, and pond hockey in the winter. Many in Michigan grew up fishing for bluegill in neighborhood rivers, using chunks of hotdogs as bait.

Photo: A young boy fishes recreationally on the Kalamazoo River.

This is why when a river becomes polluted, when the fish are declared unsafe to eat, it hurts people as well as the environment. Pollution negatively impacts people's ability to recreate and enjoy outdoor spaces. The Kalamazoo River has a long history of industrial pollution, and clean up has been underway for years, but now a new settlement lodged in court will provide \$25 million to restore injured natural resources by funding projects that improve the river and watershed ecosystem.

A History of Pollution

The Kalamazoo River Superfund site was added to the National Priorities List by the U.S. Environmental Protection Agency in 1990. It stretches for 80 miles of the Kalamazoo River, 3 miles of Portage Creek, and extends into Lake Michigan. From the 1950s through the early 1970s, paper mills along the river recycled carbonless copy paper, a process that would have significant and lingering environmental impacts.



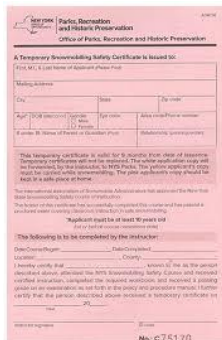


Image on left - Example of Carbonless Copy Paper. Image credit: New York Office of Parks, Recreation and Preservation.

Carbonless copy paper allows markings made on the top page to be copied on the middle and bottom pages. This is made possible by tiny ink capsules that burst under the pen’s pressure. From the ‘50s through the ‘70s, these ink capsules were made with industrial chemicals known as polychlorinated biphenyls (PCBs).

Congress banned PCBs in 1979 when they were linked to serious health problems in humans, fish, and wildlife. In high concentrations, PCBs can impact fertility and growth, and cause cancerous tumors and even death. PCBs degrade very slowly, so they linger in the environment for decades after they were discharged.

The NCR Corporation, previously known as the National Cash Register, sold carbonless copy paper to paper mills in Michigan along the Kalamazoo River to recycle. As the mills “de-inked” the paper, those PCBs were released into the surrounding environment.

Those PCBs contaminated surface waters and sediments in the Kalamazoo River and Portage Creek, as well as surrounding soils and floodplains. Fish and wildlife were exposed to PCBs in the water, sediments, soil, and through their diet. These toxins then accumulated in their tissues, sometimes causing health problems.

Photo: A mink in Michigan. Mink are among the many animals vulnerable to the impacts of PCB contamination. Image credit: Environmental Protection Agency.



Predators have the highest levels of concentration because they consume PCBs in the tissues of their prey. The Kalamazoo River is home to many species of culturally and economically important species, mammals, birds, and fish, which have all been impacted by PCB contamination.

Humans can also be exposed to PCBs, often by eating contaminated fish. An official fish consumption advisory is in place for the Kalamazoo Superfund site, warning people about consuming fish from the river. Fish consumption advisories decrease the public’s ability to recreate and enjoy the river, which is why some of the restoration funds will go toward enhancing recreation in addition to improving fish and wildlife habitat.

A Healthier Chapter Begins

Photo: View of the Kalamazoo River. Image credit: Enbridge (with permission).

On Dec, 11, 2019 a legal settlement was announced between the federal and state governments and the NCR Corporation that includes \$25 million to restore natural resources injured by PCB contamination. However, damage assessment work is not done. This is a partial settlement of damage claims with one party; the trustees are still pursuing natural resource damages from the remaining parties.

The \$25 million, which will be paid by NCR Corporation over seven years, will be used to plan and complete multiple environmental restoration projects. To best benefit communities and utilize local knowledge, [the trustees will evaluate and select these projects with public input.](#)



The public can submit restoration project ideas through [this link](#), and will be able to comment on the [Department of Justice site](#).

Some restoration in the Kalamazoo watershed has already begun. In March 2019 the [Alcott Dam](#) was removed from Portage Creek, reopening the creek to fish and other wildlife. By working with the State of Michigan and the U.S. Fish and Wildlife Service, NOAA helped to open up over a mile and a half of habitat for fish such as brown trout, smallmouth bass, and golden redhorse. It was an important step in restoring the Kalamazoo River back to a healthy ecosystem and providing local communities safe places to fish and recreate.

This \$25 million settlement marks another major victory for the Kalamazoo River and surrounding waterways. Just as NOAA and our co-trustees worked together to assess environmental impacts, we will work to implement restoration projects that most benefit local communities and economies along this important waterway.

WEBINARS & ONLINE TRAINING

NEW WEBINARS FROM OSRL

There are two new remote training courses available to book now on our website:

- Remote MCA Refresher
- Remote UKCS Corporate Manager (OPEP Level 2)

Please visit our website for more remote training course offerings. <https://www.oilspillresponse.com/>

Our popular webinar series continues with the next webinar 'Utilising fishing vessels for oil spill response in the North Sea' scheduled on 11th August. Register to attend here.

Our technical library now includes three new webinar recordings:

- Revisiting Oil Spill Capability Review
- Preparedness priorities for offshore activities (English and Spanish versions available).
- Are you Response Ready? A guide to maintaining Tier 1 Equipment (English and Spanish versions available).

AUSTRALIA & NEW ZEALAND – WEBINARS FROM ALGA

Introduction to the National Environment Protection (Assessment of Site Contamination) Measure 1999

Thursday 6 August 2020 1:30pm AEST

Earn up to 1 CPD point

[MORE INFORMATION](#)

A Practical Guide to Measuring VOCs in Air using Passive Samplers

Thursday 13 August 2020 12pm AEST

Earn up to 1 CPD point

[MORE INFORMATION](#)

Top Tips and Tricks for Sampling of Contaminated Sites – PFAS and Other Contaminants

Thursday 27 August 2020 10:30am AEST

Earn up to 1 CPD point

[MORE INFORMATION](#)

USA: ITRC PFAS VIRTUAL TRAINING - AUGUST 11-13, 2020

As part of the DOE's Analytical Services Program's Virtual Training Workshop Series, ITRC is teaching a three-day PFAS seminar. The training will involve current updates on PFAS treatment and detection, sampling and analysis, management of PFAS contaminated sites, and regulations, both current and proposed. For more information and to register, see https://whova.com/web/analy_202009/?view=preview.

CONTRACTS, TENDERS & BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

OTHER OPPORTUNITIES: USA & EUROPE

USA - Government solicitations are frequently posted in Technology Innovation News Survey and US EPA Tech Direct.

EUROPE – European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter.

See "Links for other publications" for links to download current issues.

ISCO Members are welcome to post tender invitations in this section.

MESSAGES FROM EVENT ORGANISERS

USA: OHMSETT OIL SPILL RESPONSE STRATEGIES & TACTICS TRAINING COURSE CANCELLED

Late last week, we made the decision to cancel the Sept. 8-11, 2020 Oil Spill Response Strategies & Tactics Training due to the uptick in COVID cases and the state of New Jersey restricting travelers from 31 states to a 14 day quarantine when entering the state.

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

USA: CLEAN WATERWAYS REPLAY

CLEAN WATERWAYS is excited to deliver a virtual event, [CLEAN WATERWAYS Replay](#), for anyone who can't attend the in-person conference this week in Indianapolis. This online event is scheduled for release the week of August 17th and gives you access to all of the content you would find at the in-person event, but at your pace and convenience.

We are committed to providing a safe and worry-free environment for attendees of CLEAN WATERWAYS and recognize that some of our audience is unable to travel, but still needs the valuable content, networking and connection to response equipment and solutions that CLEAN WATERWAYS provides. We are thrilled to be able to provide an online alternative to this community.

CLEAN WATERWAYS Replay will go live August 17, with bonus sessions being released over the course of three days. After that, all content will be available on-demand for the remainder of the year.

- Access to video recordings of all sessions from the in-person conference
- Three bonus sessions that didn't take place at the in-person conference
- Ability to ask questions to all speakers, exhibitors and sponsors in the online portal
- Directory of exhibitors and sponsors with contact information and company collateral

You can [sign up](#) for CLEAN WATERWAYS Replay now. Individual access to the online event is \$299 and unlimited company access is only \$1029. All content will be available on-demand through the end of the year.

USA: CLEAN GULF – EARLY BIRD DISCOUNTS ABOUT TO EXPIRE

We want to do everything we can to help deliver cost savings and take the extra steps to make your experience at [CLEAN GULF](#) healthier and safer:

- We've added a smaller group registration discount package for those sending as few as 3 from their company. The new trio group package offers to send 3 for the price of 2.
- We're already working with the Henry B. Gonzalez Convention Center and our host hotels on an enhanced event hygiene protocol—going beyond health and safety “recommendations” to create an environment where you are safe to learn and connect with one another.
- Should any health concerns or travel restrictions prevent you from attending, your registration will easily transfer to the virtual component of CLEAN GULF 2020.
- If your company secures any group plan package, we'll let your entire team access any on-demand content we procure from CLEAN GULF 2020.

If you're interested in securing a group registration package, ranging from sending 3 to 10+, we have an option for you! Contact Carey Buchholtz at 713-343-1878 or cbuchholtz@accessintel.com. *Early bird discounts apply for group registration.*

Exhibit space and sponsorships are still available for CLEAN GULF 2020! To secure your participation and celebrate 30 years with us, contact Kayla Sparks at 713-343-1869 or ksparks@accessintel.com

NEW ZEALAND LAND & GROUNDWATER CONFERENCE AND ECOFORUM 2020

14, 16 & 18 September 2020

Have you seen our eConference Preliminary Program yet?

Make sure to click on the topics to view the abstracts and read more about the innovative and industry leading Keynotes. Take a look at the [Preliminary Program here!](#)

Explore the inspiring discussions, the industry breakthroughs and all the questions currently challenging the land and groundwater sector at our incredible expanded eConference event in September 2020.

Register Now for the New Zealand Land and Groundwater Conference and EcoForum 2020 and reach the power of global perspectives and connections, to help solve local problems.

UPCOMING EVENTS

Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed

Your Editor is doing his best to keep this 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.

If an event title is not printed in blue ink it is not hyperlinked to the event website. This may be because the website is not yet available or because the link for the website has not yet been sent to the Editor.

COUNTRY	2020	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
ONLINE	July 27-31	SPE International Conference and Exhibition on HSE & Sustainability	Internet
USA	August 3-5	Clean Waterways Conference & Exhibition	Indianapolis, IN.
USA	August 17-20	Science of Chemical Releases (SOCR)	Seattle/Online TBA
ESTONIA	August 25-27	BALEX DELTA 2020 pollution response exercise	Talinn
USA	CANCELLED	Oil Spill Response Strategies & Tactics Training	Leonardo, NJ
ONLINE	Sept. 15-17	Ecoforum Conference & Exhibition (Virtual)	Internet
INDIA	POSTPONED	Oil Spill Conference & Exhibition	Mumbai
ICELAND	Sept. 28-30	International Symposium on Plastics in the Arctic and Sub-Arctic Region	Reykjavik
MALTA	October 6-7	Regional Meeting of National Experts on the Post-2021 Mediterranean Strategy for Prevention of and Response to Marine Pollution from Ships	Valetta
UK	October 12-13	EI Hazardous Area Classification	London
UK	October 19-23	IMO Marine Environment Protection Committee	London
USA	October 20-22	Clean Gulf Conference & Exhibition	San Antonio, TX
ONLINE	October 27-29	Arctic Shipping Forum North America	Internet
MONACO	October 27-29	Regional Workshop to enhance Marine Oil and HNS regional cooperation in the Mediterranean (MEDEXPOL 2020)	Monaco
UK	November 2 -	Meetings of the IOPC Funds' governing bodies	London
NETHERLANDS	November 4-5	European Environmental Ports Conference 2020	Rotterdam
UK	December 2-3	Salvage & Wreck Removal Conference	London
BAHREIN	December 7-8	EI Middle East HSE Forum	Bahrein
COUNTRY	2021	TITLE OF EVENT	LOCATION
FRANCE	March 23	CEDRE Information Day on Containers	Paris
USA	May 10-13	International Oil Spill Conference (IOSC 2021)	New Orleans, LA
MALTA	May 25-27	Fourteenth Meeting of the Focal Points of the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC)	Valetta
CANADA	June 8-10	43rd AMOP Technical Seminar on Environmental Contamination and Response	Edmonton, Alberta
USA	June 28-30	Clean Pacific Conference & Exhibition	Seattle, WA
USA	September 7-10	Hazmat Emergency Response Workshop	Sacramento, CA
COUNTRY	2022	TITLE OF EVENT	LOCATION
NETHERLANDS	Details TBA	Interspill Conference & Exhibition	Amsterdam

PUBLICATIONS

ISGOTT INTERNATIONAL SAFETY GUIDE FOR OIL TANKERS AND TERMINALS

Effective management of health, safety and environmental protection is critical to the tanker industry. This Sixth Edition of ISGOTT has been revised and updated by industry experts to provide essential guidance on current technology, best practice and legislation. It remains the definitive reference for the safe operation of oil tankers and the marine terminals they visit. £385 GBP

<https://www.witherbyseamanship.com/isgott-6th-edition-international-safety-guide-for-oil-tankers-and-terminals.html>

info@witherbys.com +44 (0)1506 463 227 witherbys.com

PUBLICATIONS (CONTINUED)

NEW GUIDELINES AIM TO SUPPORT MANGROVE RESTORATION IN THE WESTERN INDIAN OCEAN

For many coastal communities, including those in the Western Indian Ocean region, mangroves are critical to economic and food security. A new set of guidelines on mangrove restoration for the region aims to support the restoration of its degraded mangrove ecosystems and support recovery from the economic impacts of COVID-19.

While governments acknowledge the importance of mangroves, the success of restoration efforts has been limited. The new [Guidelines on Mangrove Ecosystem Restoration for the Western Indian Ocean Region](#) analyze risks and challenges to restoration projects and point to potential solutions.

CONCAWE: PERFORMANCE OF EUROPEAN CROSS-COUNTRY OIL PIPELINES

Statistical summary of reported spillages in 2018 and since 1971. [Link for downloading](#)

LINKS FOR DOWNLOADING & READING OTHER PUBLICATIONS

ALGA Cronicle	News from Australasia on Contaminated Land Remediation	April 2020
AMSA Update	Latest News from the Australian Maritime Safety Authority	Current issue
ATRAC Newsletter	News from the Adriatic Training and Research Centre	December 2019
AUSMEPA Bulletin	News from the Australian Marine Environment Protection Assoc'n	Summer 2020
BIMCO Bulletin	Marine and shipping-related news from BIMCO	June 2020
Newsletter from George Holliday	News and commentary on HSE issues from George Holliday	On request email
Cedre Newsletter	News from Cedre in Brittany, France	June 2020
Clean Nigeria Associates Newsletter	News from CNA about Oil Spill Response in Nigeria	Publication paused
EMSA Newsletter	News from the European Maritime Safety Agency	Current issue
Environmental Expert	Environmental News from Environmental Expert	Current issue
GEF Newsletter	Monthly Newsletter from the Global Environment Facility	Subscription
GESAMP	Group of Experts on the Scientific Aspects of Marine Environmental Protection	Latest news
GISEA Quarterly Newsletter	News from Global Initiative for South-East Asia	Q2 2020
IMO News Magazine	News from the International Maritime Organization	Summer 2020
IMO Publishing Newsletter	New and forthcoming IMO publications	June-July 2020
ITOPF Ocean Orbit	News magazine from ITOPF with interesting spill response articles	October 2019
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	Q2 2020 issue
Maritime Executive Magazine	Often contains articles of interest to the spill response community	March–April 2020
MEDNEWS	News from UNEP Mediterranean Action Programme	02 / 2020
MOIG Newsletter	News from the Mediterranean Oil Industry Group	January 2020
NCEC Newsletter	News from the National Chemical Emergency Centre	March 2020
Nautical Institute News	News from the Nautical Institute	Jan.–Feb. 2020
Navigate Response	Global crisis communications network for shipping & marine	June 2020
NOAA OR&R	Weekly round-up of news from NOAA's Office of Response & Restoration	Latest issue
Oceanbuzz	Newsletter giving news on the Ocean Technology Industry	Current issue
OCIMF Newsletter	News from the Oil Companies International Marine Forum	May 2020
OHMSETT Gazette	Oil Spill Response Research & Renewable Energy Test Facility Quarterly	Spring 2020
OSPAR Newsletter	Protecting & Conserving the N.E. Atlantic and its resources	End of year 2019
PEMSEA Newsletter	Healthy oceans, people and economies in the East Asian Seas	March 2020
Pollution Online Newsletter	News for pollution prevention & control professionals	Current issue
Safe Seas, Clean Seas	Quarterly Newsletter from Maritime New Zealand	July 2018 issue
Salvage World	Quarterly Newsletter of the International Salvage Union	Current issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Current issue
Technology Innovation News Survey	News from US EPA – Contaminated Site Decontamination	June 1-15, 2020
USA EPA Tech Direct	Remediation of contaminated soil and groundwater	August 1, 2020
WestMOPoCo	Western Mediterranean Region Marine Oil & HNS Pollution Cooperation	January 2020

Your editor depends on regular receipt of updated URL links for listed publications. If these are not received, relevant entries will be discontinued.

INCIDENT REPORTS

2020 DIESEL FUEL SPILL IN NORILSK, RUSSIA – SITUATION OVERVIEW

On 29th May 2020, a spill of an estimated 20k tons of diesel fuel occurred at a thermal power plant in Norilsk, Krasnoyarsk Territory, Russian Federation, in the Arctic Circle. The spill is believed to have resulted from ground subsidence due to permafrost melting. It has reportedly contaminated an area of 350 sq km, with 15k tons out of 20k leaking into the nearby Ambarnaya river.

INCIDENT REPORTS (CONTINUED)

The plant is owned by a subsidiary of Norilsk Nickel. On 3rd June 2020, the President of the Russian Federation, Vladimir Putin, declared the state of emergency. Rescuers and equipment have been mobilized for response. The situation appears to now be under control and clean-up efforts are ongoing. UNEP is in contact with EMERCOM, WWF, WHO and UNIC and is following up with the Ministry of Natural Resources and Environment and the Marine Rescue Service. No request for assistance has been received. Discussions are ongoing at the country level on technical guidance and assessments of the environmental impact of the spill. The UNEP/OCHA Joint Environment Unit is on standby for support as needed. [Virtual OSOCC](#)

SOUTH AFRICA: SALVAGE OPERATION TO RETRIEVE CONTAINERS LOST OFF MSC PALAK

July 22 - The South African Maritime Safety Authority (SAMSA) and other stakeholders based in the port of Ngqura are co-ordinating a salvage operation to retrieve containers lost overboard from MSC Palak during a storm in Algoa Bay, South Africa, on 14 July 2020. The salvage operation also involves the vessel's insurer, the Department of Environment, Forestry, and Fisheries (DEFF), Transnet National Ports Authority (TNPA), the vessel owners, and local cleanup services providers. "Aerial surveillance has been carried out to spot the drifting debris along the coast and salvage crew using boats have towed the spotted debris to a safe place such that it poses minimal risk to ships navigating along the coast and to avoid environmental damage," SAMSA said. "MSC [Mediterranean Shipping Company] has given its full support to the salvaging operations to recover any floating debris and assist with making the shipping lanes and the general area safe for navigation." [Safety at Sea / Read more](#)

UAE: OIL SPILL ON COAST FORCES CLOSURE OF BEACH



Photo: Oil washes up at Kalba beach in Sharjah on Sunday. The slick stretches across three kilometres of the UAE's east coast. Hisn Kalba Instagram

July 26 - Pollution from an oil spill has washed up along the east coast, forcing the authorities to close a public beach in Sharjah. Residents reported the 3-kilometre oil slick along Kalba beach to authorities on Sunday. It is the third oil spill reported along the east coast of the UAE this year. Last month, oil washed ashore in Khor Fakkan in Sharjah and a slick was reported at Al Aqah in Fujairah in March. Kalba

Municipality, Sharjah Environment and Protected Areas Authority and the environmental management company Beeh organised a clean-up of the beach after police closed it to the public. [The National / Read more](#)

MAURITIUS: BULK CARRIER AGROUND IN ENVIRONMENTALLY SENSITIVE AREA

July 27 - A large bulk carrier, the 203,000 DWT Wakashio went hard aground on July 25 in the Indian Ocean off the east coast of the island of Mauritius. The vessel is in an environmentally sensitive area raising local concerns of an environmental disaster. Fishing vessels are being told to avoid the area around the ship and the Blue Bay Marine Park is nearby on the South East coast of Mauritius. It is a leading tourist destination and considered to be one of the best places to see the marine life.

The Maritime Executive / [Read more](#) Related reports in [gCaptain](#) and [Marine Link](#)

July 31 – Report published in The Maritime Advocate - In the evening of 25 July 2020 the bulk carrier Wakashio ran aground on a coral reef off the south east coast of Mauritius near Mahébourg. The 2007 built vessel was on a ballast voyage from Lianyungang in China to Tubarão in Brazil when she ran aground in a position three miles south of Pointe d'Esny. The vessel's course had been monitored by the Mauritian coastguard prior to the grounding and efforts had been made to contact the crew to warn them of their dangerous course but without reply. An hour later the vessel grounded in the Blue Bay lagoon some 900 metres from the shore. The vessel's Master then notified the authorities of the accident. There are 20 crew on board. Reports suggest the vessel has some 3,894 m/t of low sulphur fuel oil, 207 m/t of diesel and 90 m/t of lubricant oil on-board.

The following day local authorities dispatched a helicopter to carry out an aerial surveillance of the vessel. These inspections have continued and on 27 July some oil was reported in the waters surrounding the bulk carrier. It appears the engine room has been flooded as a result of a ruptured hose but the hull is reported to remain intact. Containment booms have been placed in the lagoon

INCIDENT REPORTS (CONTINUED)

by the authorities who are concerned about any impact on the Blue Bay Marine Park. Aerial monitoring continues. Testing for the presence of oil, grease and hydrocarbons has to date been negative but daily testing continues.

Smit Salvage has been appointed to refloat the Wakashio under the terms of an LOF salvage contract with SCOPIC invoked. Tugs have been deployed from South Africa and Singapore and are expected to arrive on site shortly together with oil spill response equipment. The sea conditions are challenging at the site with surf and the weather is forecast to deteriorate. [Thanks to Nick Elliott]

USA: ARIZONA TRAIN DISASTER: WATCH AS FLAMES ENGULF DERAILED TRAIN - 'LIKE A SCENE FROM HELL'

July 30 - The train derailed in the Arizona city of Tempe as it crossed a bridge over Tempe Town Lake at around 6:15am. It is understood around 100 emergency service personnel, including firefighters, police, and paramedics, attended the scene. Between eight and 10 of the train carriages are believed to have been affected by the blaze. Many of them were carrying lumber, but some of the carriages contained tanks full of flammable liquid. None of these tank carriages were involved in the fire, but at least one of them has leaked, officials have said. Express / [Read more](#) Related reports in [KStar News](#) and [Phoenix New Times](#)

UAE: CONTAINERS COLLAPSED ON BOARD OF CONTAINER SHIP

Video: <http://www.maritimebulletin.net/2020/07/31/containers-collapsed-on-board-of-container-ship-uae/>



July 30 - Containers stack on the stern of container ship UNI FLORIDA has reportedly collapsed at Jebel Ali, UAE, on Jul 30. Some containers were damaged, some probably fell overboard, it's not yet confirmed. UNI FLORIDA arrived at Jebel Ali on Jul 27 from Saudi Arabia, and as of evening Jul 31, remained moored at Jebel Ali. August 1 – Update - Understood it happened not in port but during the voyage. Maritime Bulletin / [Read more](#)

July 31 – Video: Boxship Arrives in UAE With Toppled Containers - While the full details of the situation are currently unknown, images have begun to appear of the 3,500 TEU container ship UNI Florida arriving in port with visible signs of container damage. The Maritime Executive / [Read more](#)

NIGERIA: RIVERS STATE GOVERNMENT APPEALS FOR CALM OVER OIL SPILL

July 31 - The Rivers State Government has called on the people of Omoku in Ogba/Egbema/Ndoni Local Government Area of the state, to remain calm, following an oil spill from a production facility in the Oil Mining Lease (OML-11) that occurred in the place. The OML-11 is operated by a subsidiary of Eni, the Italian oil and gas giant, Nigerian Agip Oil Company (NAOC). The state Commissioner for Environment, Dr Igbiks Tamuno, made the appeal during an on-the-spot assessment of the impacted site of oil spill on farmlands and rivers in Obrikom OML-11 in Omoku. Tamuno said that a joint investigation (JIV) has commenced between the oil firm and experts to ascertain the real cause of the spill, saying that action would be taken by the state government. The Tide / [Read more](#)

IRAN CLEARS OIL SPILL IN NORTHERN GULF REGION, IRNA AGENCY REPORTS

August 1 - Iranian teams have cleaned up an oil slick near field in the northern region of the Gulf that had extended over a six-square-km (2.3 square miles) area, an Iranian maritime official said on Saturday. The cause of the spill, which occurred on Wednesday, was being investigated, the director-general of ports and maritime in Iran's Bushehr Province, Siavash Arjomandzadeh, told the official IRNA news agency. The cleanup took place near the Abuzar field, Iran's main production area in the Gulf. An Iranian official had told IRNA on Thursday that it was difficult to determine the cause of the spill because there were several fields belonging to Iran and other countries in the region. He said oil could have leaked from underwater pipelines. Devdiscourse / [Read more](#)

HISTORY

FROM THE ARCHIVES, 1991: MASSIVE OIL SPILL THREATENS AUSTRALIAN COAST

On 21 July 1991 Greek tanker Kirki lost its bow off the coast of Western Australia, resulting in a major pollution incident.

HISTORY HISTORY (CONTINUED)

Built in Spain in 1969, the Kirki was owned by Kirki Shipping Corporation SA and managed by Mayamar Marine Enterprises of Liberia SA.

Toward the end of the voyage, the vessel encountered rough seas and a heavy swell with predominantly west to south westerly weather. Problems were first noticed at about 2200 Western Standard Time (WST) on Saturday 20 July when the forepeak ballast tank filled with sea water, causing the vessel to trim by the head. The vessel was about 55 nautical miles (nm) north west of Lancelin. The vessel reduced speed and its course was altered to bring the weather on the beam and ease the effect at the bow. Efforts to pump out the tank were unsuccessful as serious structural damage had occurred to the ship's forward hull section. At the time the wind was a westerly 35 knots with a gale warning.

At 3.00 am WST on Sunday 21 July, the damaged bow section broke off causing the collision bulkhead to fracture and the expose no.1 cargo tank to the sea. Cargo oil spilled and fire broke out from the bow, probably as a result of arcing from exposed electrical cables. At this time the Kirki was 24 nautical miles south-west of the West Australian fishing village of Cervantes, 245 km north of Perth. The weather was severe; force 8 winds from the west/south west, rough seas and heavy swells.

[Read the full account of the Kirki oil spill in this report compiled by the Australian Maritime Safety Agency](#)

TEN GOOD REASONS WHY YOU SHOULD BE A MEMBER OF ISCO

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

- Be recognised as a member of a worldwide community of professionals who share a common interest.
- Corporate Members enjoy Free Listing in ISCO's International Directory of Spill Response Contractors, Equipment Suppliers, Training Providers, and Consultancy Services – your advertising banners displayed with one click access to your website. It's a great search facility for potential customers.
- Corporate Members receive requests for emergency provision of resources for spill response support. The Emergency Assistance facility is there for government agencies, oil companies and response organizations - not only for rapid sourcing of additional resources in very 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.
- 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.
- Free publicity – Announce your new products and services developments in the weekly ISCO Newsletter – reaching out to a highly targeted customer audience in over 60 countries.
- Benefit from negotiated discounts in attending conferences and exhibitions – the savings can significantly offset the cost of maintaining your membership.
- 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.
- Your membership helps ensure continued publication of the ISCO Newsletter, keeping 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.
- 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.
- 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 preparedness.

For more information visit www.spillcontrol.org

Apply for Membership of ISCO at <http://www.spillcontrol.org/2013-02-05-10-50-47/membership-application>

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