

## 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 Neil Marson, Secretary General (UK)
- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalglish, VP M'ship (USA)

### Committee Members

- M. Jean Claude Sainlos (France)
- Mr Kerem Kemerli (Turkey)
- Mr Marc Shaye (USA)
- Mr Dan Sheehan (USA)
- Captain Bill Boyle (UK)
- Lord Rickaby (UK)
- Mr Matthew Sommerville (UK)

### COUNCIL (National Representatives)

- Mr John Wardrop (Australia)
- Mr Elkhan Mamedov (Azerbaijan)
- Dr Merv Fingas (Canada)
- Captain D. C. Sekhar (India)
- Major Ben Benny (Israel)
- Mr Sanjay Gandhi (Kenya)
- Mr Dennis van der Veen (Netherlands)
- Chief Kola Agboke (Nigeria)
- Mr Carlos Sagrera (Panama)
- Mrs Fatima B. Shaik (South Africa)
- Dr Ali Saeed Al Ameri (UAE)
- Dr Timothy Gunter (USA)

### SECRETARIAT (Core Management Team)

- Mr Neil Marson (UK)
- Mr John McMurtrie (UK)
- Ms Mary Ann Dalglish (USA)
- Captain Bill Boyle (UK)
- Mr John Wardrop (Australia)
- Mr Marc Shaye (USA)
- Mr Michael Watson (UK)

## INTERNATIONAL NEWS

CLICK ON THE BANNERS BELOW FOR MORE INFORMATION



## 'OIL SPILLS OF OUR TIME': EXPERTS SOUND ALARM ABOUT PLASTIC LOST IN CARGO SHIP DISASTERS

**Sri Lankan beaches buried in pellets only 'tip of the iceberg' of environmental harm after analysis of nurdles from burning ship**

February 9 - Container ship accidents at sea should be considered the "oil spills of our time", warned environmental organisations that found a toxic mix of metals, carcinogenic and other harmful chemicals on plastic washed up on Sri Lanka's beaches after a cargo ship fire.

When the X-Press Pearl sank off nine nautical miles off Colombo, Sri Lanka's capital, in May 2021, the most "significant harm" from the country's worst maritime disaster initially came from the **spillage of 1,680 tonnes** of plastic pellets, or "nurdles", into the Indian Ocean. They were found in dead dolphins, fish and on beaches – in some places 2 metres deep. A **UN report** called it the "single largest plastic spill" in history.

But a new **study**, from Sri Lanka's **Centre for Environmental Justice** (CEJ) and the **International Pollutants Elimination Network** (IPEN), a coalition of NGOs in 124 countries, said the nurdle spill was the "tip of the iceberg" of environmental harm from the accident.

The above is the introduction to a short article in The Guardian newspaper. To read, click on <https://www.theguardian.com/environment/2022/feb/09/cargo-ship-disasters-are-oil-spills-of-our-time-because-of-health-risk-from-plastic>

Breaking news from UNEP – **"Eleven additional governments commit to New Plastics Economy"** - Eleven new governments announce they will join the New Plastics Economy Global Commitment at the One Ocean Summit in Brest, France. The New Plastics Economy Global Commitment provides a voluntary framework for countries to deliver concrete actions to accelerate the systemic transition towards a circular economy for plastics. Read more at - <https://www.unep.org/news-and-stories/story/eleven-additional-governments-commit-new-plastics-economy>

## ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

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

## MEMBERSHIP OF ISCO

[Benefits of Membership](#)

[Online Membership Application Form](#)

## YOU ARE INVITED TO JOIN THE ISCO DISCUSSION GROUP ON LINKED-IN



Click on the link below –

<https://www.linkedin.com/groups/4016064/>



## AND ISCO'S FACEBOOK GROUP

Click on the link -

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

## 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](#)

## INTERNATIONAL NEWS (CONTINUED)

### ISCO NEWS

#### INTERNATIONAL CONFERENCES & EXHIBITIONS 2022

ISCO is planning to attend the following events –

USA – Clean Waterways, Pittsburgh, April 5-7

Netherlands – Interspill, Amsterdam, June 21-23

India – Oil Spill India, New Delhi, August 4-5

USA – Clean Pacific, Lake Washinton, Renton, August 17-18

Bahrein – Recso Enviros spill, Bahrein, October 11-13 (not yet confirmed)

USA – Clean Gulf, New Orleans, November 8=10

More info will be released later.

#### ONLINE PRESENTATIONS FROM ISCO STUDENT MEMBERS

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

Student Group leader Kayode Peter Balogun and Captain D. C. Sekhar, Member of ISCO Council for India, are working together on the co-ordination of these presentations.

The most recent presentation was given by Larissa Montas, Department of Chemical, Environmental and Materials Engineering University of Miami on Thursday 3<sup>rd</sup> February – See details under ISCO News in newsletter 823.

These Student Presentations are now being recorded and it is planned to make them available for downloading later on the ISCO website.

ISCO offers free membership for students, trainees and apprentices during the period of their studies. You can learn more about Student Membership at <https://spillcontrol.org/student-membership/>

Companies and organizations that are interested in offering students internships and learning / experience acquisition opportunities are invited to contact the ISCO Student Group. Student Group leader Peter Balogun can be reached at [balogunkayodepeter@yahoo.com](mailto:balogunkayodepeter@yahoo.com)

#### NEXT STUDENT PRESENTATION

The next Student Presentation will be given by Marko Dordevic who is studying for his doctorate in marine and coastal studies at the Faculty of Maritime Studies, University of Rijeka, Croatia. His presentation will take place on 17th February 2022.

#### Abstract of Marko's Presentation

Risk assessment links the likelihood of adverse events occurrences with their consequences.

Such assessment is used in work determining trade-offs and management to characterize the security and impacts associated with an interest.

The maritime sector is mainly used to raise safety standards, prevent environmental pollution, and maintain a healthy marine ecosystem.

Risk control is traditionally focused on the individual relationship of action and consequences, which are later considered in groups to assess their acceptability following safety requirements. Thus, the presentation will describe the risk assessment for emergency pollution of the Adriatic Sea as an economically important area for the Republic of Croatia.



**FASTANK** The World's Leading Portable Containment Tanks

**FASTANK 1/3/5**

Successfully serving our industry and environment for 40+ years

[www.fastank.com](http://www.fastank.com)  
[info@fastank.com](mailto:info@fastank.com)

**Vikoma Skimmers / Selwood pumps**

Vikoma and Selwood are recognized worldwide in the spill response industry.

25 ANOS  
VARICHEM DE COLOMBIA S.P.A.

Click here to contact us for more information

**YOU CAN PLACE AN  
ADVERTISEMENT  
HERE**

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

## INTERNATIONAL NEWS (CONTINUED)

Firstly, it will define an analysis area with a meteorological description of the eastern Adriatic coast. Also, the first part will describe the waterways with an analysis of traffic density, regulations, and dominating types of vessels of particular areas. The second part is a detailed analysis of statistical data on accidents on the Adriatic, after which the final analysis of the most probable and most undesirable extraordinary pollution event will be presented. In addition, examples and procedures for determining the acceptability of risk and its control on the Croatian coast are presented.

The researchers who participated in the project were Đani Šabalja, Marko Dordevic and Teo Malnar.

Marko's presentation is on February 17, 2022 at 07:30 PM India, 2pm GMT. You can join the Zoom meeting using the link -

<https://us02web.zoom.us/j/83790452706?pwd=U0tONkVHajdodkV2ZmRERG1XRfZ0UT09>

Meeting ID: 837 9045 2706 Passcode: 2vs4ep

One tap mobile

+12532158782,,83790452706#,,,,\*270861# US (Tacoma)

+13017158592,,83790452706#,,,,\*270861# US (Washington DC)

Dial by your location

+1 253 215 8782 US (Tacoma)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 346 248 7799 US (Houston)

+1 646 558 8656 US (New York)

+1 669 900 9128 US (San Jose)

Meeting ID: 837 9045 2706 Passcode: 270861

Find your local number: <https://us02web.zoom.us/j/kbo5mMaT7Q>

## MORE INTERNATIONAL AND REGIONAL NEWS

### THE BALTIC SEA DAY FORUM 2022 WILL FOCUS ON THE BALTIC SEA ACTION PLAN

February 7 - The XXII International Environmental "Leonid Korovin" Baltic Sea Day Forum 2022 will be held in Saint-Petersburg (Russia) on 22-23 March 2022. The central theme of this year's edition will be the updated HELCOM Baltic Sea Action Plan (BSAP).

Other topics will notably include environmental monitoring of the Baltic Sea and the ongoing HOLAS 3 assessment, elimination of the HELCOM hot spots, and marine litter. HELCOM / [Read more](#)

### EMSA ANNOUNCES NEW PROCUREMENT PROCEDURE FOR STAND-BY OIL SPILL RECOVERY VESSELS

February 8 - In order to strengthen its response capacity network EMSA announces the launch of a procurement procedure to contract new stand-by oil spill recovery vessel(s) in the Atlantic North. EMSA / [Read more](#)

### OECMS: HELCOM INVESTIGATES ALTERNATIVE MARINE PROTECTION MEASURES

February 9 - To investigate the potential of protective measures in the Baltic Sea beside marine protected areas (MPAs), HELCOM, in cooperation with the [FAO](#) and [IUCN WCPA](#), held a workshop on [other effective area-based conservation measures](#), or OECMs, on 1-3 February 2022.

"OECMs, a relatively novel conservation approach, are an important part of the HELCOM agenda as well, as reflected by the [2021 Baltic Sea Action Plan](#), which contains no fewer than seven actions related to spatial conservation measures, and which explicitly refers to OECMs in several places," said Rüdiger Stempel, the Executive Secretary of HELCOM, adding that OECMs could, among other things, contribute to strengthening the overall coherence of the [HELCOM MPA network](#). HELCOM / [Read more](#)

## NEWS REPORTS FROM AROUND THE WORLD

### BELIZE: UK HYDROGRAPHIC OFFICE SUPPORTS MARITIME TRADE AND ECONOMIC GROWTH IN BELIZE

February 10 - The UK Hydrographic Office (UKHO) has started surveying the seabed of the southern waters of Belize as part of the UK Government's Commonwealth Marine Economies (CME) Programme. Almost all activity in our oceans, from shipping to monitoring delicate marine environments, depends on accurate seabed mapping data that illustrates the shape and movement of natural underwater features. For coastal nations like Belize, the collection of this data is vital to supporting sustainable economic growth and protecting communities from the effects of climate change. gCaptain / [Read more](#)

## **CANADA: STRENGTHENING PROTECTIONS FOR CANADIANS AND THE ENVIRONMENT FROM HARMFUL CHEMICALS AND POLLUTANTS**

February 9 - Canadians expect their government to protect their health and the environment from harmful chemicals and other toxic pollutants. Today, the Government of Canada took an important step forward to do just that.

The Government introduced in the Senate the bill Strengthening Environmental Protection for a Healthier Canada Act, which would modernize the Canadian Environmental Protection Act, 1999 (CEPA) for the first time in twenty years and make related amendments to the Food and Drugs Act.

CEPA is Canada's cornerstone federal environmental protection law that protects Canadians and the environment. Over the years, CEPA has been used to prevent plastic microbeads from entering our water, ban asbestos, and prohibit the use of BPA (bisphenol A) in baby bottles. By reintroducing this bill, the Government will strengthen and update CEPA, to keep pace with the evolving science around the risks associated with harmful chemicals and pollutants. Environment & Climate Change, Canada / [Read more](#)

## **FRANCE: EMERGENCY RESPONSE SUMMARY FOR JANUARY 2022**

During January, Cedre's duty team was contacted following several leaks: recurrent unexplained pollution in a watercourse in Saint-Thégonnec (Finistère) causing the river water to turn white and show an acidic pH of 3; the release of around 100 litres of hydraulic oil by a barge in the port of Le Havre. Cedre was notified by the Finistère fire and rescue service (SDIS29) of a yellow substance washing up on the banks of Plougastel-Daoulas (Finistère) at the mouth of the Elorn river. Analysis in our laboratory showed that the pollutant was palm oil. Cedre also provided on-site technical assistance alongside the polluter and clean-up personnel. Information was sent to MRCC Réunion following the grounding in Mutsamudu (Anjouan, Comoros) of a diesel-powered bulk carrier transporting cement. The month's main event was a spill from the subsea loading/unloading line at La Pampilla refinery north of Lima (Peru). The leak, estimated at 1,000 m<sup>3</sup>, then later revised to 2,000 m<sup>3</sup>, contaminated some 40 km of coastline, comprising protected islets and home to a strong fishing industry. Two engineers from Cedre were part of the team that arrived on site on the 26th, coordinated by the United Nations (UNEP/OCHA Joint Environment Unit) in connection with the European Emergency Response Coordination Centre (ERCC). The aim is to assist the Peruvian authorities in responding to this spill (spill response organisation, response techniques, assessment and environmental monitoring). CEDRE / [Read more in the January 2022 Cedre Newsletter](#)

## **ITALY: THE PROTECTION OF THE ENVIRONMENT, BIODIVERSITY AND ECOSYSTEM INCLUDED IN THE ITALIAN CONSTITUTION**

February 9 - The Italian parliament has definitively approved the bill amending two articles of the Constitution, 9 and 41

Article 9 is part of the "fundamental" articles of the Constitution. It already contained the protection of the landscape heritage and the historical and artistic heritage of the Nation, with the reform the Republic also attributes the protection of the environment, biodiversity and ecosystems and explicitly specifies a principle of protection for animals.

The amendment to Article 41, on the other hand, states that health and the environment are paradigms to be protected by the economy, as well as safety, freedom and human dignity. And the same amended article also states how institutions, through laws, programs and controls, can orient public and private economic initiative not only towards social but also towards environmental purposes. ISPRA / [Read more](#)

## **SOUTH AFRICA: UPL PROVIDES UPDATE ON CLEAN-UP OPERATIONS AFTER CHEMICAL SPILL DURING JULY UNREST**

February 8 - UPL South Africa (Pty) LTD says data shows that its extensive clean-up and rehabilitation operations are showing success in many areas. The clean-up and rehabilitation follows a chemical spill after an arson attack at UPL's leased Cornubia warehouse last July during the violence and looting. IOL / [Read more](#)

## **SRI LANKA: X-PRESS PEARL CLEANUP SHOULD BE COMPLETED IN FOUR MONTHS**

February 7 - Authorities in Sri Lanka have started clearing the debris of the ill-fated containership X-Press Pearl while they pursue compensation for the worst environmental disaster ever to hit the country's coastlines.

The Sri Lankan government has reported that the process to clear debris and parts of the sunken ship has commenced and will be completed in a span of four months. Shanghai Salvage holds the wreck-removal contract. The Maritime Executive / [Read more](#)

## **SRI LANKA: X-PRESS PEARL REPORT CALLS FOR PLASTIC PELLETS TO BE CLASSIFIED AS HAZARDOUS SUBSTANCES**

February 11 - Risks associated with the transport of chemicals and plastics in containerships need to be addressed, say the authors

of the first public study into the impacts on people and the environment of toxic chemicals released during the largest plastic pellet spill on record.

The report, X-Press Pearl: “a new kind of oil spill”, was published this week by health and environmental advocates International Pollutants Elimination Network I (IPEN) and The Centre for Environmental Justice (CEJ). It includes results of the groups’ analysis of plastic debris that washed up on Sri Lankan beaches, and testimonies from communities devastated by the pollution, following the loss of the X-Press Pearl, which sank off the port of Colombo in May last year. Splash / [Read more](#)

### **UK: SCOTLAND - CONSULTATION: AN UPDATED MARINE LITTER STRATEGY**

February 9 - This consultation is one of the final stages in the process of updating the Marine Litter Strategy for Scotland. A large amount of work has already been undertaken with guidance from the Marine Litter Strategy Steering Group. Membership of the Marine Litter Strategy Steering Group includes representatives from academia, environmental charities and non-governmental organisations, terrestrial litter interests, the fishing industry, and public bodies that have responsibility for dealing with pollution in our waterways.

To contribute to the IMarEST response, please send your feedback to us at [technical@imarest.org](mailto:technical@imarest.org) by 11 March 2022  
IMarEST / [Read more](#)

### **UK: NATIONAL STANDARD FOR MARINE OIL SPILL RESPONSE ORGANISATIONS**

February 10 - A document outlining standards to be met by organisations delivering Tier 2 response services in the UK. Details on submission of Annual Return added (Section 3.4). Change made to appendices numbering system - Appendices migrated to gov.uk as attachments Guidance on submission of Returns added (Appendix 11) Annual Return Template added (Appendix 12) New HTML format. Maritime & Coastguard Agency / [More info](#)

### **USA: CALIFORNIA - LA OFFICIALS HOPE FEDERAL FUNDING WILL HELP REMEDIATE ORPHANED OIL WELLS**

February 7 - Some of Los Angeles' orphaned oil wells may be remediated through an initial allocation of \$61.4 million to California through the bipartisan infrastructure law's funding to help states clean up orphaned wells, Rep. Tony Cárdenas said today.  
KFI / [Read more](#)

### **USA: OREGON - CLEANING UP PORTLAND'S ANTICIPATED OIL SPILL COULD COST \$2.6 BILLION, REPORT FINDS**

February 7 - A massive, earthquake-induced oil spill in Portland’s Northwest industrial zone could cost upwards of \$2 billion in damages and clean up costs, a county and city report found. Regional officials are using this new data to build a case for why the oil tank owners should be liable for the costs while state legislators are proposing a bill to mitigate the disaster.  
Portland Mercury / [Read more](#)

### **USA: NORTH CAROLINA - THE MILITARY IS LOOKING FOR PFAS POLLUTION AT N.C. BASES, BUT CLEANING IT UP WILL TAKE DECADES**

February 9 - The Department of Defense is testing hundreds of military sites around the country, including dozens in North Carolina, for contamination from chemicals known by the acronym PFAS. The chemicals are used in a host of products and often called “forever chemicals” because they don’t fully break down in the environment. Some have been linked with health problems including cancer. WUNC / [Read more](#)

### **USA: LATEST NEWS REPORTS FROM NOAA OR&R**

February 11 – Please click on the links below to download and read the latest news from NOAA OR&R

[Upcoming Lecture: Weather and Atmospheric Research](#)

In this month’s lecture in the OR&R lecture series, You Don't Know What You Don't Know, we have the pleasure of diving into the world of climatology, as we listen to Dr. Nick Bond discuss the impacts that climate change has in the Pacific Northwest and the associated hazards that threaten coastal marine ecosystems and coastal communities. We hope you'll [join the lecture\(link is external\)](#) next Thursday, Feb. 17 at 3 p.m. ET.

[Marine Debris Program Welcomes New Knauss Fellow](#)

In early February, the Marine Debris Program welcomed Benjamin Frey as a 2022 Knauss Fellow. The Knauss fellowship provides a unique educational and professional experience to graduate students who have an interest in the ocean, coastal, and Great Lakes resources, and in the national policy decisions affecting those resources.

## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

### [U.S. Ambassador to Mexico to Visit NOAA Marine Debris Program-Funded Project in Tijuana, Mexico](#)

On Feb. 14, 2022, the U.S. ambassador to Mexico, Ken Salazar, is scheduled to visit a NOAA Marine Debris Program funded project site in Tijuana, Mexico. The project is being implemented by the nongovernmental organization, [WILD Coast \(link is external\)](#), to reduce the amount of marine debris entering the Tijuana River from the Los Laureles Canyon tributary in Mexico.

## YEMEN: HOUTHIS RENEGE ON NEW DEAL TO PREVENT RED SEA OIL SPILL DISASTER

February 6 - The Iran-backed Houthi militia in Yemen on Sunday reneged on a deal to head off an environmental disaster in the Red Sea, only hours after reaching an agreement with the UN.

The Houthis first said they supported a new plan by UN officials to pump one million barrels of oil out of the decaying oil storage vessel Safer, which is moored off the port of Hodeidah.

But as the UN's Yemen coordinator David Gressly hailed "constructive" talks on the plan, which is also supported by Yemen's government, the Houthis backtracked. They said the UN was guilty of "continued disregard of its obligations" over the tanker and accused the UN mission of wasting funds allocated for maintaining the vessel. Arab News / [Read more](#)

## PEOPLE IN THE NEWS

### ITOPF WELCOMES NEW STAFF MEMBERS



February 8 - TOPF has welcomed Amy Jewell, Technical Adviser, and Joe Lane, Communications Officer, to the team in January.

Amy joins ITOPF following the submission of her PhD in Paleoclimate & Geochemistry at Southampton University, where she also completed an MSci in Oceanography with French. During Amy's PhD research, she spent time aboard the RRS Discovery in the Southern Ocean carrying out piston-coring and seismic survey operations and has travelled across Europe, USA, Canada, Australia and Chile for her studies.

Joe joins ITOPF having previously worked in the water industry for five years. His experience as a communications officer covers internal, external, digital and crisis communications. Acting as a STEM ambassador for the water industry, Joe organised and spoke at numerous schools across the South East of England, engaging thousands of students in workshops.

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

## NEWS FROM ISCO MEMBERS

### SURFCLEANER SECURES RAGN-SELLS DEAL DELIVERING LARGE-SCALE OIL RECOVERY AND BOOSTING CIRCULAR ECONOMY

February 8 - SurfCleaner has partnered with environmental company Ragn-Sells to deliver two specialist units for large-scale oil separation services in Stockholm – doubling current oil recovery rates to near 100%.

The recovered oil can be resold and exported to multiple markets further contributing to the circular economy and increasing revenue streams for Ragn-Sells. A market leader in waste management, environmental services and recycling across Scandinavia, the processing facility collects and treats circa 40,000 tonnes of oil from workshops, harbors, and industries annually.

Surf Cleaner / [Read more](#)



### SURFCLEANER AND BRIGGS MARINE TEAM UP TO UNLEASH REVOLUTIONARY WATER-TREATMENT TECH IN UK

SurfCleaner has partnered with prestigious Briggs Marine to unleash our revolutionary water treatment systems in the UK market. The move opens up major potential across the UK's vibrant maritime sector covering harbors, coastlines and nearshore markets.

Following a recent three-week test period at Briggs Marine in Aberdeen, Scotland, SurfCleaner's SCO 1000 machine was able to repeatedly remove 200ltrs of oil from a 9000ltr contaminated tank, in just 15 minutes, including completely removing the oil sheen. Briggs Marine is now in the process of securing SurfCleaner's first product orders in the UK. Surf Cleaner / [Read more](#)

### PACTOW CELEBRATES ISO CERTIFICATIONS



*Photo: Pacific Towing's recent ISO certifications – ISO:9001 (Quality), ISO:45001 (OH&S), and ISO:14001 (Environment) – reflect its marine services market leadership in not just PNG but broader Melanesia. Pictured are Pacific Towing staff, equipment and vessels utilised in a recent oil spill drill for one of its PNG clients.*

February 9 - Marine Services company Pacific Towing (PacTow) is celebrating three recent and significant ISO certifications – ISO:9001 (Quality), ISO:45001 (Occupational Health & Safety), and ISO:14001 (Environment). The certifications apply to the diverse breadth of services the company provides to clients across multiple industries in both Papua New Guinea and internationally.

The 'scope' of PacTow's ISO certifications is extensive, encompassing towage, mooring, salvage, commercial diving, and life raft services. Although harbour towage is PacTow's core business, it increasingly provides its other services to PNG's oil and gas sector, as well as in international waters.

PacTow's ISO certification process took approximately one year, with certification achieved in early January. General Manager, Neil Papenfus, reports that the process took longer than anticipated due to complexities and delays associated with COVID-19, with most of the auditing being conducted online. He credits his Health, Safety, Sustainability, Environment & Quality (HSSEQ) team for PacTow's successful certification.

Papenfus acknowledges PacTow's pursuit of ISO certification as "overdue" but notes that the company holds other significant certifications and has implemented numerous initiatives attesting to its quality, safety and environmental credentials. For example, in 2021 PacTow voluntarily undertook and passed its International Safety Management (ISM) Code audit; an audit conducted in accord with the International Maritime Organisation (IMO), the United Nations agency specialising in maritime and shipping affairs. Furthermore, the company's camp facilities at its dedicated tug base in Port Moresby are Hazard Analysis Critical Control Points (HACCP) certified.

PacTow's quality credentials are underpinned by substantial investments in training programs (in-house and overseas) for all of its seafarers and onshore staff (including two cadetship programs). The company even has its own purpose-built training facilities at its dedicated tug base in Port Moresby.

PacTow also has its own internal Safety Awards program, as well as an innovative program (i.e., 'Gender Smart Safety') that specifically improves the workplace health and safety of female employees. Initiatives to reduce its environmental impact include mangrove rejuvenation projects, a new waste management plan, and the decreased use of diesel along with the increased use of solar energy.

## NEWS FROM ISCO MEMBERS (CONTINUED)

“PacTow already enjoyed a reputation for excellence and reliability” said Papenfus “but our ISO certifications give us additional credibility especially from the perspective of new or prospective clients. More important than the marketability of these certifications though is the improvements we’ll enjoy in operational efficiencies which will result in an even better client service experience. Likewise, the refinements we’ve made during the certification process will help us achieve our major HSSE and organisational goal for 2022, which is further reducing our carbon footprint.”

PacTow delivers excellent, reliable, and safe marine services through PNG and the broader Pacific. A well-maintained fleet, as well as a dedicated and exceptionally trained team underpin PacTow’s ongoing expansion and success.

## UPCOMING EVENTS

**TO VIEW UPCOMING EVENTS PLEASE CLICK ON <https://spillcontrol.org/upcoming-events/>**

To see ALL of the posted events you will need to click on “LOAD MORE” at the foot of each opened “upcoming events” page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event organisers before finalising your attendance plans.

Please advise the Editor if any of the entries require correction or updating. If you are holding an event you would like to be featured here, please send details to [John.mcmurtrie@spillcontrol.org](mailto:John.mcmurtrie@spillcontrol.org)

## UPCOMING WEBINARS & PODCASTS

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

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

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

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

**February 16 – UK & Ireland Spill Association – Marine Debris and Plastic Pollution – 1500 GMT**

<https://www.eventbrite.co.uk/e/marine-debris-and-plastic-pollution-some-thoughts-on-collection-recovery-tickets-226967735607?aff=ebdsoporgprofile>

**Message from MOIG** - We would like to inform you that for those who were unable to attend the webinar on « Points to consider in the selection of oil spill booms »; held on 09 February 2022, that we posted the recording on MOIG website in Latest News.

<http://medoilgroup.org/index.php/news-events>

## MESSAGES FROM EVENT ORGANISERS

### INDIA: OIL SPILL INDIA – 6<sup>th</sup> INTERNATIONAL CONFERENCE & EXHIBITION

**4-5 August 2022 at Taj Palace, New Delhi. Theme: Commitment, Synergy, Excellence.**

Based on its theme the 2022 Preliminary Conference Programme will focus on the stimulating landscapes of Oil Spill Prevention, Preparedness, Response & Restoration activities. Highlighting case studies on some of the world's worst spills in the backdrop of the global oil industry moving into more challenging environments and the increasing public sensitivities to oil spill disasters.

More info - <http://www.oilspillindia.org/>

### CANADA: NEW DATES ANNOUNCED FOR IOSSC 2022: OCTOBER 4-7, 2022

With the ongoing rise in COVID-19 and full respect for the impact on our attendees, the decision was reached to postpone the [International Oil Spill Science Conference 2022 \(IOSSC 2022\)](#) to October 4-7, 2022. Our goal is to make attending IOSSC 2022 as accessible as possible for our attendees from around the world. While we were all looking forward to being together in person, now is not that time. This date change will facilitate in-person networking and great discussion about the latest research in the field of oil spill science including spill prevention, contingency planning, and environmental rehabilitation. For those of you who wanted to attend but were prevented from joining because of current conditions, we hope you will grasp this opportunity and join the conference in the fall of 2022.



## MESSAGES FROM EVENT ORGANISERS (CONTINUED)

IOSSC 2022 will still be a hybrid event, comprising both in-person and virtual sessions. The abstract submission remains open. Abstracts can be [submitted online](#) before June 17, 2022. We continue to welcome your submissions.

Beautiful Halifax will be there when we can gather later this year. We will keep you informed on any further updates about IOSSC 2022. We look forward to seeing you in Halifax in October.

## CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

### INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

### OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/> US EPA Tech Direct <https://clu-in.org/techdirect/td012022.htm> and USA Federal Contracts Update <https://clu-in.org/Federal-Contract-Opportunities>

European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter. (Look in “Links for other publications” for the current issue of this publication)

### USA: REQUEST FOR INFORMATION - NEW AND INNOVATIVE TYPE I SORBENTS



The United States Coast Guard (USCG) Research and Development Center (RDC) and the Bureau of Safety and Environmental Enforcement (BSEE) Oil Spill Preparedness Division (OSPD) invite interested parties to submit a white paper in response to a Request for Information (RFI) to collect information on new and innovative Type I sorbents.



Sorbents with a technology readiness level (TRL) of 6 to 8 will be considered. TRL 9 sorbents will not be considered for this evaluation. For additional information about TRLs, please review BSEE's research project number 1042 titled “Technology Readiness Level (TRL) Definitions for Oil Spill Response Technologies and Equipment” at <https://www.bsee.gov/research-record/osrr-1042-technology-readiness-level-trl-definitions-for-oil-spill-response>

Additional details can be found in the Request for Information at Sam.gov notice ID RDCSOSR, or <https://sam.gov/opp/aa1d093824334562a1678f534ff9a26b/view> Responses are due February 28, 2022.

## LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

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

As a service to its Members ISCO provides a listing of publications that may be of interest to our community. This page provides details and links for downloading more than 40 publications most of which can be accessed at no cost.

This page is frequently updated. ISCO depends on regular receipt of updated URL links for listed publications. If these are not received, relevant entries will be discontinued. Publishers are kindly requested to advise the editor [john.mcmurtrie@spillcontrol.org](mailto:john.mcmurtrie@spillcontrol.org) if any links are not up-to-date. Readers wishing to recommend the addition of additional publications should contact the editor.

## NEW PUBLICATIONS

### X-PRESS PEARL – A “NEW KIND OF OIL SPILL”

Contributors - Centre for Environmental Justice (CEJ), Sri Lanka; International Pollutants Elimination Network (IPEN), Sweden; Arnika – Toxics and Waste Programme, Prague, Czech Republic; Laboratory of X-ray Diffractometry and Spectrometry at the University of Chemistry and Technology Prague, Czech Republic; Department of Food Analysis and Nutrition at the University of Chemistry and Technology, Prague, Czech Republic

Download at [https://ipen.org/sites/default/files/documents/ipen-sri-lanka-ship-fire-v1\\_2aw-en.pdf](https://ipen.org/sites/default/files/documents/ipen-sri-lanka-ship-fire-v1_2aw-en.pdf)



### THE YOUNG PERSON'S GUIDE TO THE MEDITERRANEAN ACTION PLAN AND THE BARCELONA CONVENTION

February 8 - The Mediterranean Action Plan of the UN Environment Programme (UNEP/MAP) has released the “Young Person’s Guide to the Mediterranean Action Plan and the Barcelona Convention” aimed at ocean literacy practitioners, educators and young readers aged 11-17.

The Guide offers a simplified introduction to the legal framework that UNEP/MAP and the Contracting Parties to the Barcelona Convention have established and gradually upgraded, covering a wide range of themes pertaining to the Mediterranean marine and coastal environment as well as sustainable development. The web version of the Guide can be downloaded and/or disseminated through: <https://bit.ly/YPG-MAP-BC> UNEP / [Read more](#)

### EMSA NEWSLETTER FOR FEBRUARY 2022

February 11 - In this issue: Heads of EEA and EMSA present European Maritime Transport Report to EP’s environment and transport committees; EMSA’s Earth Observation services detect drifting containers; Exploring the possibility of using Remotely Operated Vehicles for underwater survey in the context of accident investigation; EMSA holds stakeholder consultation on first ever European Maritime Safety Report; EMSA launches CARGOSAFE study on containership fires; EMSA hits major certification milestones across all activities. <http://www.emsa.europa.eu/newsroom/latest-news/item/4649-newsletter-february-2022.html>

### CEDRE: NEWS FROM JANUARY 2022

- A new director takes the helm at Cedre
- 2022 Information Day “Consideration of Environmental Impacts”
- Spill response equipment testing
- Bay of Audierne beach litter monitoring survey
- CleanAtlantic: new reports released by Cedre
- Spill response training in Capbreton marina
- Presentation of the SAMI project
- Taiwan: virtual training on pollution in inland waters

<https://wwz.cedre.fr/en/content/download/10809/file/308%20E.pdf>

### CEDRE: NEW OPERATIONAL GUIDE ON WASTE MANAGEMENT



February 11 - Cedre has just released a new version of the operational guide entitled “*Gestion des déchets issus d’une pollution accidentelle des eaux*”, replacing the 2004 version. This fully revised guide takes into account changes in standards, products and practices, and expands the scope of the guide to chemical spills, inland waters and smaller incidents.

This operational guide is intended for response managers as well as operators. It aims to provide the information required for initial emergency decision-making, good practices and constraints to be foreseen for the different stages of waste management, including collection on the water and on land, transfer, storage and treatment.

The waste management phase is often the longest and most costly operation after a major oil or chemical spill. Good choices made as early as possible, or even before an incident occurs, will help to control the situation. The guide can be [downloaded in digital format free of charge from Cedre’s website](#). Hard copies cost €25.

## INCIDENT REPORTS

### USA: NOAA OR&R SUMMARY OF RESPONSES FOR JANUARY 2022

Every month OR&R’s [Emergency Response Division](#) provides scientific expertise and services to the U.S. Coast Guard on everything from running oil spill trajectories to model where the spill may spread, to possible effects on wildlife and fisheries and estimates on how long the oil may stay in the environment.

This month OR&R responded to eight incidents in January, including oil discharges, grounded vessels, and other pollution-related incidents.

Here are some of January’s notable incidents – Click on the links to learn more

## INCIDENT REPORTS (CONTINUED)

- [Fishing Vessel Grounded, Sandy Hook, NJ](#)
- [Spill from Quarter North Oil Well, Louisiana, Gulf of Mexico](#)
- [Diesel Spill along Mississippi River Gulf Outlet, New Orleans, LA](#)
- [Massive Fire at Warehouse, Passaic, NJ](#)
- [Oil Spill near Lima, Peru](#)
- [Fire and Diesel Spill from Recreational Fishing Vessel, Navesink River, Red Bank, NJ](#)
- [Vessel Grounding, Ocracoke, NC](#)
- [Small Spill from Recreational Vessel near Bay St Louis, MS](#)

[https://blog.response.restoration.noaa.gov/incident-responses-january-2022?utm\\_medium=email&utm\\_source=GovDelivery](https://blog.response.restoration.noaa.gov/incident-responses-january-2022?utm_medium=email&utm_source=GovDelivery)

## PERU: OIL SPILL UPDATES

**Feb. 4** - Round-the-clock care for Peru's oil-stained sea birds. Hand fed fish and given gentle yet rigorous baths, penguins and other sea birds are slowly regaining their strength at a Peruvian zoo after a major oil spill that claimed many of their friends. Of about 150 oil-stained birds rescued alive after the January 15 spill of some 12,000 barrels of oil, half later died. The survivors -- penguins, cormorants and pelicans -- are being nursed back to health and independence at the Parque de Las Leyendas zoo in Lima. ENCA / [Read more](#)

**Feb 6** - Peruvian Authorities Temporarily Lift Restrictions From Repsol After Oil Spill. Peru's authorities have temporarily allowed Repsol's La Pampilla refinery to load and unload hydrocarbons to secure crude oil supplies amid ecological disaster caused by oil spill, Peru's Agency for Environment Assessment and Enforcement (OEFA) said. Urdu Point / [Read more](#)

**Feb. 7** - Oil spill: Peru receives assistance from 15 countries and int'l organizations. Peru has so far received specific schemes of technical assistance and international cooperation from at least 15 entities, among friendly countries and international organizations, so as to tackle the Repsol oil spill on the Lima coast, the Ministry of Foreign Affairs reported on Monday. Andina / [Read more](#)

**Feb. 8** - Repsol Continues Cleaning Up Oil Spillage In Peru. Spanish refinery Repsol says it is 48 per cent through the total cleanup of a January 15 oil spill off the coast of the Peruvian capital, Lima. Nearly 3,000 people are working on the cleanup. Republic World / [Read more](#)

**Feb 10** - On Peru's protected Fishermen's Island, birds are still dying a month after oil spill. The government has banned fishing near the spill, which President Pedro Castillo has called Peru's worst environmental disaster in recent history. The Spanish oil company has hired professional companies and fishermen to help clean it up. The Peninsula / [Read more](#)

A local press source of news for our Spanish-speaking readers: <https://larepublica.pe/tag/repsol/>

## LIBYA: OIL SPILL UNDER CONTROL AFTER PIPELINE LEAK IN SHARARA FIELD

February 6 - Akakus Oil Operations has brought under control an oil spill that leaked from a producing well at the Sharara field, the company said on Saturday.

A team from the production department managed to stop a spill leaking from a pipeline running crude from wells P01 and P02 to the O-115 field, Akakus Oil Operations said, confirming that the two wells are now functioning normally with a production capacity of 1,200 barrels per day. The Libya Observer / [Read more](#)

## THAILAND: OIL SPILL UPDATES



**Feb. 4** - Gulf of Thailand oil pipeline leak threatens reef-rich marine park

Marine experts in Thailand have warned that a recent oil spill off the country's east coast could impact sensitive underwater ecosystems that underpin local livelihoods in a nearby marine park.

Khao Laem Ya-Koh Samet National Park, designated for its coral reefs and seagrass beds, lies 25 kilometers (15 miles) from the site of the spill in the Gulf of Thailand. Mongabay / [Read more](#)

[Thanks to John Wardrop, Member of ISCO Council for Australia]

## INCIDENT REPORTS (CONTINUED)

**Feb. 7** - Impact of Rayong oil spill on marine ecosystem will only be visible in a year, says researcher. “The authorities evaluate the impact of a chemical or oil spill from a short-term perspective, with no in-depth follow up on the effect it may have had on aquatic wildlife and the marine ecosystem,” said Prof Dr Woranop Wiyakarn, director of Aquatic Resources Research Institute and a professor at Chulalongkorn’s Marine Science Department.

“Coral reefs are mostly overlooked as they are often marked ‘clean’ once the oil slick is cleaned up,” he said. “In reality though, a large amount of oil and other toxic chemicals released in the water can affect the coral reef’s fertility, making them unable to discharge eggs and sperm to generate new coral. The Nation / [Read more](#)

**Feb. 9** - Thai province declares state of emergency over oil spill. Thailand’s Rayong province has declared a state of emergency after oil spill from a ruptured pipeline owned by Thai refinery Star Petroleum Refining Public Co. Ltd. reached beaches, Upstream reported. Since Jan. 25, approximately 12,400 gallons of crude oil are estimated to have leaked into the Gulf of Thailand from an underwater hose used to load tankers at an offshore single point mooring. Business Insurance / [Read more](#)

**Feb. 11 - Thailand tackles 2nd offshore oil spill in 3 weeks.** Thai authorities scrambled Friday to contain the country’s second oil spill in less than three weeks in the Gulf of Thailand.

An estimated 5 tons (1,320 gallons) was believed to have leaked 20 kilometers (12 miles) off the eastern province of Rayong, in the same location where at least 22 tons (5,800 gallons) spilled into the sea on Jan. 25. ABC News / [Read more](#)

**Feb 11** - Soldiers race to clean up new oil spill in Thailand. Thai Navy soldiers were working against the clock to clean up a second oil spill in less than a month in southeastern Thailand to prevent it from reaching land, local authorities said Friday.

Chanchana Aimsang, Rayong province governor, said in a press conference that the spill of some 5,000 liters of crude oil is located about 5 kilometers from the coast, where some remains of the previous spill remain.

Star Petroleum – owned by the American Chevron – the company responsible for the lead, indicated in a statement that the oil leak occurred Thursday when operators were working on the recovery of a gas pipeline. La Prensa Latina / [Read more](#)

## NIGERIA: PANIC AS OIL SPILL RAVAGES BAYELSA COMMUNITY

February 6 - Fishermen living in the riverine communities Koluama clan in the Southern Ijaw Local Government Area of Bayelsa State have expressed concerns over fresh oil spill at the Oil Mining Lease (OML) 59 operated by Conoil Producing Limited. Locals told journalists that the devastating spill occurred from the indigenous oil firm’s wellhead 1 on January 30 that was spewing crude oil in gaseous form from an elbow of a pipeline linked directly to the Ango wellhead 1 where crude oil and gas leaked till February 2 when a team from Conoil mobilised to stop the spill. Daily Trust / [Read more](#)

## PORTUGAL: AZORES - TANKER IN LOAD BREACHED

February 8 - Tanker in load breached, engine room flooded, heavy tilt, Azores. Product tanker SAO JORGE ran aground early in the morning Feb 8 in the strait between island Graciosa and small islet Praia, shortly after leaving Praia da Graciosa port. Understood it was more of contact than grounding, tanker was anchored after the accident, but she suffered propeller damages and underwater hull breach in engine room area, with ensuing water ingress. Tanker developed a heavy aft tilt, but understood, she’s still afloat. She’s loaded with diesel and gasoline, no leaks reported, so far. Maritime Bulletin / [Read more](#)

February 9 - Product Tanker Breaches Hull in Grounding in the Azores. Portuguese authorities in the Azores are reporting that they have been able to stabilize a product tanker that was taking on water after grounding while departing the northern island of Graciosa. The vessel is reported to be stable and undergoing an inspection to develop a salvage plan. Portos dos Acores reported that they also dispatched a tug to the scene and that a pilot reboarded the tanker guiding it to a safe anchorage. They were able to stop the water flooding the engine room by sealing the space and also secured the fuel tanks to prevent an oil spill from either the vessel’s diesel fuel or the gasoline cargo. The Maritime Executive / [Read more](#)

## ECUADOR: OIL SPILL REPORT UPDATE

February 9 - Oil operations are normalized in the Heavy Crude Oil Pipeline. The Agency for the Regulation and Control of Energy and Non-Renewable Natural Resources issued official letter No. ARCERNR-ARCERNR-2022-0080-OF, which authorizes, after technical analysis, the immediate restart of crude oil transportation through the Pipeline, after that the operating company OCP Ecuador reported the completion of the welding works on the pipeline.

The Energy portfolio, through the technical personnel deployed in the field, carried out permanent monitoring of the actions carried out by the company OCP Ecuador for the cleaning of the spilled crude oil, which is currently at 92% reinjection, and the repair of the section of affected pipeline, for which a new pipeline was installed in a parallel route 150 meters long. BN Americas / [Read more](#)

## AUSTRALIA: VESSEL COLLISION IN DEVONPORT, TASMANIA: UPDATE

February 9 - At 11:50 am on Friday 28th January, a commercial cement carrier “Goliath” crashed into two berthed TasPorts tugs, “Campbell Cove” and “York Cove”, in the Port of Devonport (north Tasmania). No crew members were on board the tugs, and no one was injured.

## INCIDENT REPORTS (CONTINUED)

Combined, the two tugs had 60,000 litres of fuel onboard. A small amount of fuel was lost but was contained by deployed booms (see video link below) and recovered, Remaining oil has since been decanted off the vessels by salvage divers.

Ben Cropley of ISCO Corporate Member Oil Spill Response Company of Australia Pty Ltd (ORCA) was sent to the site to be the agent for AMSA and assist both Tasports and EPA Tasmania in the response operations.

A Salvage plan is being prepared. Background reports and videos can be accessed at:

[Ship crash sinks two tugboats in Devonport | ABC News via YouTube](#)

[Cargo Ship Sinks Two Tug Boats \(Full Video\) | Boating News of the Week | Broncos Guru via Youtube](#)

<https://gcaptain.com/cement-carrier-sinks-two-tugboats-at-tasmanias-port-of-devonport/>

<https://www.fleetmon.com/maritime-news/2022/37049/two-tugs-hit-cement-carrier-half-sunk-devonport-ta/>

<https://www.theadvocate.com.au/story/7598655/tasports-responding-to-collision-at-devonport-port/>

<https://www.abc.net.au/news/2022-01-29/atsb-callout-videos-goliath-ship-crash-tug-boats-devonport/100789978>

[Thanks to John Wardrop, Member of ISCO Council for Australia, for sending in this update]

## CANADA: NEWFOUNDLAND – 25 TON OIL SPILL

February 12 - Some 25 tons of fuel leaked, according to Canadian officials.

General cargo ship ALASKABORG is suspect in oil spill off southern coast of Newfoundland on Feb 10, when the ship was passing Newfoundland en route from Baie Comeau Canada to Rotterdam, ETA Feb 19. Canadian authorities were alerted on Feb 10, quantity of leaked oil unknown. It is known only, that the ship's fuel tank was somehow, damaged while she was sailing in stormy weather, with allegedly, ensuing oil leak. Tank was sealed, but the ship was ordered to remain on "crime scene", she's looping back and forth since afternoon Feb 10. Ship's operator, Wagenborg, has been ordered to provide a response plan, Wagenborg already contracted a Transport Canada-certified spill response company, according to the Canadian Coast Guard.

The Maritime Bulletin / [Read more](#)

## A REMINDER FOR ISCO MEMBERS

### HAVE YOU ALLOWED YOUR MEMBERSHIP TO LAPSE?

ISCO welcomes lapsed members who decide to re-join. This way you can preserve your access to all our membership benefits, including delivery of the ISCO Newsletter. To re-join, just click on <https://spillcontrol.org/membership-application-form/>

No news from your part of the world? You can correct this by sending in news reports that will be of interest to the spill response community in your own country and the wider world. Send your news to your editor - [john.mcmurtrie@spillcontrol.org](mailto:john.mcmurtrie@spillcontrol.org)

### ISCO RESPECTS YOUR PRIVACY - UNSOLICITED MAIL

ISCO does not buy or make use of contact lists offered by data vendors. We do not send out unsolicited promotional mail to ISCO newsletter subscribers. We will only send you the ISCO Newsletter if you are a Member or have subscribed or given your contact information to ISCO. If you would like to receive the ISCO Newsletter you can subscribe online at [www.spillcontrol.org](http://www.spillcontrol.org) If at any time you decide you do not want to continue receiving the Newsletter you should click on the "unsubscribe" button at the foot of the covering letter sent out with each issue of the ISCO Newsletter.

---

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](http://www.spillcontrol.org) and your acceptance of ISCO's Data Protection and Privacy Policy.

---