

ISCO & THE ISCO NEWSLETTER

The ISCO Newsletter is published weekly by the International Spill Control Organisation, a not-for-profit organisation supported by members in 45 countries. ISCO has Consultative Status at IMO, Observer Status at IOPC Funds and is 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 IMO, UNEP, EC and other organisation.

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For more info on Executive Committee and Council Members go to www.spillcontrol.org

INTERNATIONAL DIRECTORY

Click on these links to view websites

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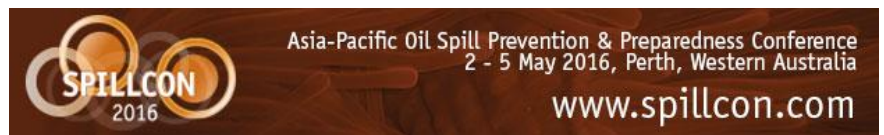
[EQUIPMENT & MATERIALS](#)

[RESPONSE ORGANISATIONS](#)

[TRAINING PROVIDERS](#)

International news

For more information on the events featured below, click on the banners



POSOW: PREPAREDNESS FOR OIL-POLLUTED SHORELINE CLEAN-UP AND OILED WILDLIFE INTERVENTIONS



Preparedness in marine pollution and civil protection is a crucial element for a prompt and efficient response to a pollution incident at sea.

Past incidents have showed the importance of a high level of awareness and training for the professionals and volunteers involved in the response process. Delays and lacks of training significantly increase the environmental impact on shorelines and fauna during a marine pollution. In the Mediterranean Sea, this issue is even more relevant due to its rich biodiversity and the high economic value generated by activities on its coastal areas.

Within the framework of the POSOW II Project, REMPEC has already developed new training material manuals and posters pertaining to the new themes of Oil Spill Waste Management and Fishermen's Support in Oil Spill Response were developed as part of a set of educational material to train professional and volunteer operators working in civil protection services, municipalities and Non-Governmental Organizations.

The said Oil Spill Waste Management and Fishermen's Support in Oil Spill Response material has been developed by the Centre of Documentation, Research and Experimentation on Accidental Water Pollution (Cedre) and the Instituto Portuario de Estudios y Cooperacion de la Comunidad Valenciana (FEPORTS), respectively, with the support of the POSOW partners and is available for download in English through the [Documentation section](#) of the POSOW website. Arabic and Turkish versions will shortly be made available on the website by the Arab Academy for Science, Technology and Maritime

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International news (continued)

Transport (AASTMT) and the General Directorate of Maritime and Inland Waters (DGMARINWA), respectively.

This training material will be used during the two ongoing Train the Trainer Courses to be held between on 19 and 22 April and between 26 and 29 April 2016, in Brest, France. They will then be disseminated to the beneficiary countries, as a supporting material to train volunteers at a local level during the National Pilot Courses, scheduled during the second half of the year 2016. [Thanks to Clément Chazot, REMPEC] [More information about POSOW](#)

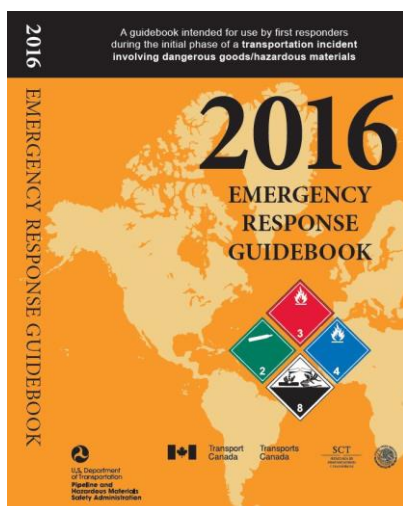
THE 2016 EMERGENCY RESPONSE GUIDEBOOK IS NOW AVAILABLE

The 2016 Emergency Response Guidebook (ERG2016) was developed jointly by Transport Canada (TC), the U.S. Department of Transportation (DOT), the Secretariat of Transport and Communications of Mexico (SCT) and with the collaboration of CIQUIME (Centro de Información Química para Emergencias) of Argentina, for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods.

The ERG2016 is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident.

This guidebook will assist responders in making initial decisions upon arriving at the scene of a dangerous goods incident. It should not be considered as a substitute for emergency response training, knowledge or sound judgment. ERG2016 does not address all possible circumstances that may be associated with a dangerous goods incident. It is primarily designed for use at a dangerous goods incident occurring on a highway or railroad. Be mindful that there may be limited value in its application at fixed facility locations.

BECOME FAMILIAR WITH THIS GUIDEBOOK BEFORE USING IT DURING AN EMERGENCY !



The following items are not yet available for the 2016 version but you may access their 2012 version.

[ERG2012 Online Downloadable Versions \(ERGO2012\)](#)
[Other Software Versions](#)

[Corrections to the ERG](#)
[ERG2012 Training Package](#)
[ERG2012 Training Videos](#)

[How to obtain the ERG2016](#)

[Summary of changes from ERG2012 to ERG2016 PDF Versions](#)

[More information from Transport Canada](#)

Incident reports from around the world

USA: CALIFORNIA - NEW GAS AND OIL LEAK REPORTED IN ALISO CANYON STORAGE FIELD

April 17 - The Southern California Gas Co. says a new natural gas and oil leak occurred in the area where a leak spewed massive amounts of gas into the air for nearly four months and drove thousands of people out of their homes.

The utility reported to the California Governor's Office of Emergency of Services (OES) on Saturday that a private oil and gas

Incident reports from around the world (continued)

company that operates a well in the Aliso Canyon gas storage field spewed less than 50 gallons of oil spray and an unknown amount of natural gas.

The Southern California Gas Co. says a new natural gas and oil leak occurred in the area where a leak spewed massive amounts of gas into the air for nearly four months and drove thousands of people out of their homes. [Scpr.org](#) [Read more](#)
[Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: INDIANA – DIESEL FUEL SPILLS INTO WABASH RIVER

April 18 – Several thousand gallons of diesel fuel finds its way into the Wabash River. The spill started sometime on Sunday and impacts Edwards County, Wabash County and White County. The river flows south before draining into the Ohio River.

The “Mount Carmel Register” reports Marathon Pipeline estimates more than 48,000 gallons of diesel spilled into the river over the weekend. That’s more than 1,000 barrels. [TristateHomePage.com](#) [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

April 19 - EPA: Wildlife unaffected by oil spill in Wabash.

A pipeline spill that dumped 48,000 gallons of diesel fuel into a river that forms the border of southern Illinois and Indiana has had no effect on wildlife, a U.S. Environmental Protection Agency official said Tuesday.

The Wabash River is at about flood stage and the enormous volume of water is helping dilute the fuel, which is expected to be undetectable by the time it reaches the Mississippi River later Tuesday, EPA on-scene coordinator Kevin Turner said. [The Journal Gazette](#) [Read more](#)

CANADA: CANADA FIRM SPILLS HYDROCHLORIC ACID IN ST. CLAIR RIVER

April 22 - A Canadian factory's accidental spill of hydrochloric acid into the St. Clair River earlier this week is apparently not impacting the drinking water supplies of the millions of Michigan and Canadian residents downriver.

The incident occurred Tuesday, when water containing "diluted hydrochloric acid (less than 10%)" entered a water separator and then overflowed from the separator into the St. Clair River at Canadian petro-chemical company Imperial Oil's plant in Sarnia, Ontario, just across the river from Michigan's St. Clair County, according to a company statement. [Detroit Free Press](#) [Read more](#)
[Thanks to Michael Rancilio, Marine Pollution Control]

ITALY: OIL SPILL FEARS IN ITALIAN RIVIERA PORT



April 23 - Authorities in the Italian port of Genoa declared a state of emergency Saturday as they battled to prevent tonnes of crude oil from spilling into the Mediterranean in the heart of the Riviera coastline.

The move came after a river barrier erected to contain the spillage from a pipeline leak at a local refinery on Sunday gave way as a result of heavy overnight rain.

"The situation is complicated. We do not know how much crude could end up in the sea," local civil protection officer Gianni Crivello told reporters.

"The Port authority has declared a local emergency." [The Peninsula](#) [Read more](#)

Other news reports from around the world (countries listed in alphabetical order)

AUSTRALIA: 2016 OIL SPILL HANDBOOK

March 29 - Oil spill response is a demanding task. Often, reporting is delayed. Sometimes, we don't know what has been seen. Too often, by the time responders get there, the slick has moved, dissolved or dispersed. Clear, robust and dependable advice on what to do, why, how and when, is invaluable.

AMSA's 2003 Oil Spill Monitoring Handbook has been used for more than a decade, however, due to changes in science, response and community expectations it needs refreshing. CSIRO was appointed to lead a review of the Handbook and has worked closely with the National Plan Environment, Science and Technical network, to draft an updated version that is already drawing critical international acclaim from international peer reviewers.

The new draft of the Oil Spill Monitoring Handbook deliberately focusses on response-phase monitoring for maritime spills. Otherwise known as 'Type I' or 'operational monitoring', response phase monitoring tries to address the 'what, where, when, how and how much' questions that assist responders to find, track, predict, clean-up and assess their efforts. *AMSA On Scene*
[Read more](#)

CANADA: LES LEYNE: NEW OIL-SPILL RULES COULD HELP PIPELINES

April 20 - There's a paradox in the environmental-management bill that tightens up oil-spill response expectations. It makes all kinds of welcome improvements in the current regime. But as soon as it takes effect, the B.C. government can check off one of the five conditions it set for approval of heavy-oil pipelines from Alberta to the coast. Politically speaking, anyone who sees the pipelines as threats should be more comfortable with the outdated regime B.C. has in place now. Because it acts as a block to provincial approval of the pipelines all by itself.

When the Environmental Management Amendment Act passes — and most of the house supports it at this point — that block will be gone. To the extent B.C. has any say over the pipelines, the government wants a "world-class" response system for marine and terrestrial spills in place before it will say yes. The marine system is a federal responsibility, but the land-based one is provincial, and it's a long way from world-class. *Times Colonist* [Read more](#)

NEW ZEALAND: OIL SPILL EXERCISE AT WHANGAREI'S PORT NIKAU

April 22- Once Whangarei's main port, the location is now a developing maritime infrastructure area and the exercise will simulate a spill of about a tonne of bilge oil from a ship berthed there, which is affecting both the water and nearby shoreline.

The exercise will include deployment of booms and other equipment to contain and recover 'spilled oil', consultation with businesses and local iwi about the incident, a shoreline assessment and clean up and the establishment of a decontamination area. *Scoop.co.nz* [Read more](#)

USA: 2016 NATIONAL PREPAREDNESS FOR RESPONSE EXERCISE PROGRAM (PREP) GUIDELINES

April 11 - On April 11, 2016, the United States Coast Guard announced the updated 2016 National Preparedness for Response Exercise Program (PREP) Guidelines ([81 FR 21362](#)). PREP was developed to establish a workable exercise program that meets the intent of section 4202(a) of the Oil Pollution Act of 1990 (OPA 90). PREP provides a mechanism for compliance with the exercise requirements. PREP is a unified federal effort and satisfies the exercise requirements of the:

- U.S. Coast Guard (USCG),
- Environmental Protection Agency (EPA),
- Pipeline and Hazardous Materials Safety Administration (PHMSA), and
- Bureau of Safety and Environmental Enforcement (BSEE).

Completion of the exercises described in the PREP Guidelines is one option for maintaining compliance with OPA 90-mandated federal oil pollution response exercise requirements.

[2016 National Preparedness for Response Exercise Program \(PREP\) Guidelines \(PDF\)](#)

[Contact Us](#) to ask a question, provide feedback, or report a problem.

USA: FEMA SEEKS COMMENTS ON NATIONAL INCIDENT MANAGEMENT SYSTEM

April 16 - Last week, the Federal Emergency Management Agency (FEMA) released the updated National Incident Management System (NIMS) for a 30-day national engagement period. National engagement provides an opportunity for interested parties to comment on the draft updated NIMS, so that it reflects the collective expertise and experience of the whole community. The national engagement period will conclude at 5:00 pm EDT May 9, 2016.

Other news reports from around the world (continued)

FEMA supports the mission of strengthening the security and resilience of the nation by working to improve the ability of all to manage incidents, events and emergencies.

NIMS provides a consistent, common approach and vocabulary to enable the whole community to work together seamlessly and manage all threats and hazards. NIMS applies to all incidents, regardless of cause, size, location or complexity.

FEMA is hosting a series of 60-minute engagement webinars to highlight key proposed changes to NIMS and answer participant questions about submitting feedback. All webinars are open to the whole community.

To review the draft of the updated NIMS, and for additional webinar information, visit: <https://www.fema.gov/national-incident-management-system/national-engagement>. To provide comments on the draft complete the feedback form and submit it to FEMA-NIMS@fema.dhs.gov.

USA: MEASURING THE DEEPWATER HORIZON OIL SPILL

April 19 – Anniversary Article - The Deepwater Horizon oil spill began on April 20, 2010, and the Deepwater Horizon sank in about 5,000 feet (1,500 meters) of water on April 22. The sinking of the platform caused crude oil to gush out of the riser — the 5,000-foot pipe that connects the well at the ocean floor to the drilling platform on the surface. After a series of failed efforts to plug the leak, BP said on July 15 that it had capped the well, stopping the flow of oil into the Gulf of Mexico after 86 days.

The rate of oil release became the subject of intense debate. Throughout the first month of the spill, government responders officially adhered to what were later known to be low and inaccurate estimates. Non-governmental scientists used the small amount of publicly available flow data to generate estimates that proved to be much more accurate. Live video feeds of the leak from the ocean floor fueled the controversy over the magnitude of the leak.

The oil slick produced by the Deepwater Horizon oil spill covered as much 28,958 square miles (75,000 square kilometers), an area about the size of South Carolina, with the extent and location of the slick changing from day to day depending on weather conditions. By the first week in June, oil had come ashore in Louisiana, Mississippi, Alabama and Florida, with significant wildlife fatalities in Louisiana. *The Maritime Executive* [Read more and watch video](#)

April 20 - BP Oil Spill Trashed More Shoreline Than Scientists Thought

The largest oil spill in U.S. history was even bigger than previously thought, at least in terms of the amount of coastline that was oiled, scientists report in a new study. The findings shed new light onto the BP Deepwater Horizon disaster in the Gulf of Mexico, which began six years ago Wednesday.

Scientists from the federal government's National Oceanic and Atmospheric Administration and several private research companies found oil along 1,313 miles (2,113 kilometers) out of 5,930 miles (9,545 kilometers) of surveyed shoreline after the spill, an increase of 19 percent from previously published estimates. That makes the disaster the largest marine oil spill in history by length of shoreline oiled, the team reported in the journal *Marine Pollution Bulletin*. *National Geographic* [Read more](#)

USA: SENATE APPROVES GREAT LAKES PIPELINE SAFETY BILL

April 21 - On March 3, in a rare demonstration of bipartisanship on issues related to energy and the environment, the U.S. Senate unanimously passed a comprehensive pipeline safety bill for the Great Lakes region.

Sponsored by Sen. Gary Peters (D-MI), the legislation received the support of the Republican-controlled Senate Commerce, Science, and Transportation Committee. Peters' bill, known as the SAFE PIPES Act, would reauthorize the Transportation Department's Pipeline and Hazardous Materials Safety Administration (PHMSA) legislation through 2019.

The bill will now be considered by the U.S. House of Representatives, which could revise the legislation. *Heartland* [Read more](#)

NO NEWS FROM YOUR PART OF THE WORLD ?

Members and other readers are invited to help rectify the balance of world news reporting. News stories from North America, UK, Australia, etc. are much more accessible on the internet than reports from other parts of the world and especially from non-English-speaking countries. To make it easier for readers in other parts of the world to contribute stories your editor is considering options to include links for interesting articles in other languages.

One option could be to print the report headline only in English and another language. A short introductory paragraph in the reader's own language could follow together with the source (for example, name of the publication) and a link that would allow the reader to access the complete article in his/her own language.

If you come across a report or an article that you think worth sharing with other members of the response community, why not send it to the editor at info@spillcontrol.org

ITALY: SPONGE CUTS OIL SPILL CLEAN-UP COST

March 15 - A simple but super-absorbent artificial sponge could lower the cost of cleaning up crude oil spills in developing countries.

A team of researchers, based at the Italian Institute of Technology in Genoa, found that simple sponges made from polyurethane foam soaked up oil spills better than more expensive sponges treated with nanoparticles.

They discovered that polyurethane foam with pores of less than half a millimetre can soak up as much as 30 grams of oil per gram of sponge. This is three times as much as sponges made from treated polypropylene, which are normally used to mop up oil spills.

"We decided to show the importance of the actual structure of the foams that are used to recover spilled oil from water," says Javier Pinto, the lead author of a paper on the study, published in the Journal of Physics D: Applied Physics on 1 March. *AllAfrica.com*
[Read more](#)

AUSTRALIA & USA: NEW RISER TECHNOLOGY FOR GULF OF MEXICO

April 5 - An observation about tall wind-resisting cacti in New Mexico has led to a new product for the multi-billion dollar global deepwater oil industry.

The recently commercialized innovation is known as the Longitudinal Groove Suppression (LGS) drilling riser buoyancy system and was made out of syntactic foam at subsea specializing Matrix Composites and Engineering's Henderson facility in Western Australia.

The device was developed by Australian Marine and Offshore Group Technologies. A multi-million dollar deal was struck in February to deploy the drilling riser at a deep-sea well in the Gulf of Mexico. *The Maritime Executive* [Read more](#)

USA: TRACKING OCEAN POLLUTION

April 20 - It's been six years since the Deepwater Horizon oil spill occurred in the Gulf of Mexico and scientists are still working to understand how oil and other pollutants move in the ocean. The incident, which occurred in April 2010, is considered the largest accidental marine oil spill in history.

The University of Delaware's [Helga Huntley](#) is among more than 40 scientists studying this problem as a member of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE).

"In order to improve models and forecasts, ultimately for oil spill response, we have to get the chain of causation, or cause and effect, right," said Huntley, an assistant research professor with the [College of Earth, Ocean, and Environment's School of Marine Science and Policy](#).

In 2012, CARTHE scientists deployed 300 untethered buoys, called drifters, into the Gulf of Mexico to simulate an oil spill. The drifters reported their location every 5 minutes via satellite GPS as they floated along with surface currents, allowing researchers to compile maps of the devices' paths.

At the same time, the scientists took measurements about the ocean's salinity and temperature. When combined, the data gave researchers a glimpse into what happens to material in the ocean. *University of Delaware* [Read more and watch video](#)

AUSTRALIA: THIS NEW FABRIC COULD HELP CLEAN UP OIL SPILLS IN THE OPEN OCEAN

April 22 - According to a team from Queensland University of Technology, the new material is covered in a layer of tiny nanostructures that look like rods. These ultra-small, semi-conducting rods on the fabric's surface allow water to run through them while trapping oils and pollutants.

Thanks to the copper used in its manufacture, the fabric has antibacterial properties as well as decontamination properties, making it the perfect device for cleaning water supplies in remote villages along with the oceans. And since it's semi-conducting, it can degrade organic pollutants using visible light.

The fabric is now undergoing tests to ensure that the rods can hold up after continued use. The next step is for the team to scale up the fabric to make it viable for large, Deepwater Horizon-scale spills. They haven't given a timeframe for this stage of testing, but hopefully it'll be ready for when the world needs it.

The team's full report has been published in [ChemPlusChem](#). *Science Alert* [Read more](#)

SHORELINE CLEAN-UP – PART 15

A short series of articles contributed by Mark Francis of Oil Spill Solutions



Mark Francis has been involved with the oil industry since 1975. He attended his first oil spill in 1976, the Tanker Elaine V incident. He became head of response for inland spills within the UK for British Petroleum E & P in 1980 for 10 years responding to well, storage tank and pipeline spills throughout the UK. Over the next 25 years he continued to build his international operations experience and has also specialised in spill response training, delivering IMO and other courses in more than 20 countries.

Shoreline Types (continued)

Estuaries



Note that spill damage, containment and clean-up operations may be very different in estuarine areas compared with other coastlines.

In particular, water in oil emulsions may sink on entering less saline waters.

It may also be necessary to take into consideration a multitude of commercial and economical factors, in addition to ecological and amenity aspects.

Large bodies of water flowing through small mouths cause very strong currents.

Photo below on right shows oil in Saudi Arabia during the 1990 gulf war - over 2 km inside the area with a tidal height of just half a meter.



What to do:

- Reduce by whatever means available the inflow of oil, (booms or closing lock gates)
- Use the outgoing tide to support cleaning operations
- Collect and recover floating oil as soon as possible
- In some countries dispersants may be used if permission has been granted
- Use inland techniques in the upper reaches of large river mouths
- Check backwaters and side streams for re-pollution

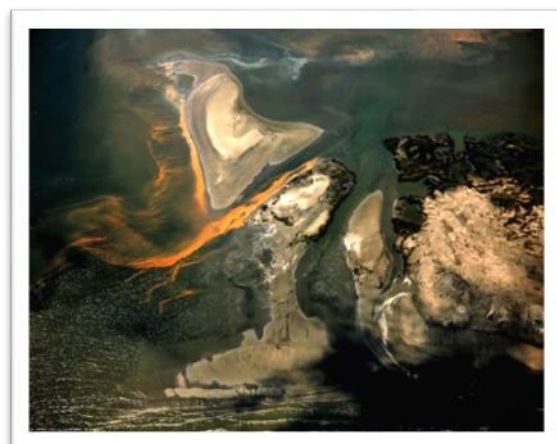
What not to do:

- Avoid over ambitious booming too far down stream
- Avoid damage to sea walls, dykes, etc., bearing in mind that tidal movements in estuaries can be more pronounced than at sea
- Do not obstruct local water traffic more than necessary

Small islands and deltas

What to do

- Seek advice from wildlife experts with respect to the extent of clean-up required
- Review whether booming of areas not yet affected by oil is necessary or feasible
- Collect and recover floating oil as soon as possible
- In some countries dispersants may be used if permission has been granted
- If necessary attempt manual clean-up



Special feature (continued)

What not to do:

- Avoid disturbing the coastal formation and existing vegetation which could cause erosion

Marinas

I am not completely against the green organisations though they do tend to use some people who are lacking in the grey matter department.

The photo on lower right shows a Greenpeace rubber boat dripping oil. This was taken during the Haven incident near Genoa, Italy.

Greenpeace decided to go boating in the oil then came back to a clean marina contaminating the boats but disappearing to let someone else clean up their mess.

Note: Spill damage will be mainly economical rather than ecological



What to do:

- Minimise spreading of pollution into locks and docks
- In confined areas with a high risk of explosion or fire cover with fire fighting foam
- Use sorbents to collect floating oil
- In some countries dispersants may be used if permission has been granted
- Agree with owner or representatives as to what clean-up is mutually acceptable.
- Involve insurance experts (compensation)
- Hose down slipways and jetties with hot water with or without chemicals
- Arrange for cleaning boats by manual, jetting and mechanical means
- Establish disposal route for oily waste

What not to do:

- Avoid secondary pollution of roads, buildings, etc.

To be continued in next week's newsletter

Note from Editor: This article was originally created for training course purposes. Having contributed the article for publication in the ISCO Newsletter, Mark Francis wishes to acknowledge sources that provided information that he used in compiling this and future episodes in this series. In the sections dealing with shoreline types, the do's and don'ts were taken from Concawe report no. 9/81 Field Guide to Coastal Oil Spill Control and Clean-up Techniques and the tables are based on some found in the Field Guide for Oil Spill Response in Arctic Waters prepared for the Emergency Prevention, Preparedness and Response Group.

Links for recent issues of other publications (in alphabetical order)

AMSA Aboard	News from the Australian Maritime Safety Authority	April 2016
AMSA On Scene	Australia: National Plan for Marine Environmental Emergencies	March 2016
ASME EED EHS Newsletter	News and commentary on HSE issues from George Holliday	Most recent issue
Bow Wave	Sam Ignarski's Ezine on Marine & Transport Matters	Current issue
Cedre Newsletter	News from Cedre in Brittany, France	February 2016
Celtic and Biogenie enGlobe Newsletter	Technical Information on Polluted Site Remediation	Spring 2016
CROIERG Enews	Canberra & Regions Oil Industry Emergency Response Group	Current issue
EMSA Newsletter	News from the European Maritime Safety Agency	April 2016 issue
Environmental Technology Online	Environmental Monitoring, Testing & Analysis	April 2016 issue
IMO News Magazine	News from the International Maritime Organization	No 1, 2016
IMO Publishing News	New and forthcoming IMO publications	March 2016
Intertanko Weekly News	International news for the oil tanker community	No 17, 2016
IPIECA eNews	Int'l Petroleum Industry Environmental Conservation Assoc'n	February 12 issue
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	January 2016 issue
MOIG Newsletter	News from the Mediterranean Oil Industry Group	January 2016 issue
OCIMF Newsletter	News from the Oil Companies International Marine Forum	March 2016 issue
Pollution Online Newsletter	News for prevention & control professionals	April 20, 2016 issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Autumn 2015 issue
Technology Innovation News Survey	News from US EPA – Contaminated site decontamination	March 1-15, 2016
The Essential Hazmat News	Alliance of Hazardous Materials Professionals	Feb 29, 2016 issue
Transport Canada Newsletter	News and articles re transport of dangerous goods in Canada	Winter 2014 issue
USA EPA Tech Direct	Remediation of contaminated soil and groundwater	April 1, 2016
USA EPA Tech News & Trends	Contaminated site clean-up information	Fall 2015 issue
WMU Newsletter	News from the World Maritime University	March 2016 issue

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

Events

AUSTRALIA: SPILLCON 2016

Spillcon 2016 will be held from 2-5 May 2016 at Crown, Perth, and will bring together 400 delegates and 60 exhibitors from all around the world, across industry, government and the service sectors. The conference program includes an array of guest speakers including Air Chief Marshal Sir Angus Houston AK AFC (Retd), Juliette Kayyem who teaches crisis leadership and homeland security at Harvard University, and Trefor Munn-Venn strategy, technology and sociology expert. The exhibition promises to bring delegates the latest in oil spill response and preparedness equipment/ technology from national and international speakers.

Back by popular demand, Spillcon 2016 will also include an impressive on-water display, where delegates will have the opportunity to observe spill response equipment in practice. The on-water display is scheduled to take place on the Swan River adjacent from the conference venue and will be supported by both AMSA and AMOSC. A variety of equipment will be on display such as wildlife, decontamination, storage, skimming and sweep systems. Larger booming activities are planned to be deployed into the Swan River. The display will culminate with a low level fly by from one of the Air Tractor's which will demonstrate the joint AMOSC/AMSA dispersant spraying capability.

The social program for Spillcon 2016 will, again, be a highlight with the Welcome Reception, Exhibition Showcase and Outback-themed Conference Dinner tickets part of the registration cost. The global profile of delegates from all around the world and, of course, within Australia promises excellent networking opportunities and sharing of industry information. The final day of the conference offers the opportunity for delegates to participate in optional masterclasses - spaces are limited so book now to secure your spot.

[View the SPILLCON website to get information on Registration, Programme, Speakers, and Exhibition](#)

You are invited to visit the ISCO booth at SPILLCON 2016

UPCOMING EVENTS SUMMARY

COUNTRY	2016	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
UK	April 25-27	IOPC Funds Meetings	London
UK	April 26	UK Spill Meeting, Dinner and Annual Awards	London
USA	April 27	Oil Train Safety Symposium	Washington
USA	April 27-29	APICOM Spring Meeting	Galveston, TX
AUSTRALIA	May 2-6	Spillcon 2016	Perth, WA
CABO VERDE	May 9-12	National Workshop on Contingency Planning	Praia
CROATIA	May 10-12	ADRIASPILLCON 2016	Opatija
UAE	May 17-18	Offshore Arabia Conference & Exhibition	Dubai

UK	May 17-18	Edie Live - Sustainability and Resource Efficiency	Birmingham
RUSSIA	May 18-20	13th POMRAC Focal Points Meeting	Vladivostok
CURACAO	May 19-20	RAC/REMPEITC-Caribe Steering Committee Mtg.	Curacao
NIGERIA	May 23-25	National W'shop on Spill Compensation & Modelling	Abuja
NETHERLANDS	May 24-26	Bon Agreement WG on Counter Pollution Activities	Scheveningen
SINGAPORE	May 24-27	Intertanko Annual Tanker Event 2016	Singapore
TUNISIA	May 26	Zarzouna Tier 2 Oil Spill Response Exercise	Bizerte City
SIERRA LEONE	June 6-9	Workshop and Exercise on Contingency Planning	Freetown
CANADA	June 4-6	Workshop on Long Term Persistence of Stranded Oil	Nova Scotia
SOUTH AFRICA	June 6-9	Workshop to review the Oil Spill Contingency Plan	Cape Town
CANADA	June 7-9	AMOP Technical Seminar	Halifax
LITHUANIA	June 20-22	Exercise Balex Delta 2016	Klaipeda
USA	June 21-23	Clean Pacific Conference & Exhibition	Seattle, WA
UK	June 22	3rd Premium Conference on Post-Spill Monitoring	London
INDIA	August 11-12	Oil Spill India	Mumbai
INDIA	Sept. 12-14	International Rivers Symposium	New Delhi
NORWAY	Sept 12-16	International NOSCA Oil Spill Technology Seminar	Bodo
INDIA	Sept. 22-24	India Clean Seas Conference 2016	Goa
FRANCE	October 10-14	Sea Tech Event 2016	Brest
UAE	October TBA	EI Middle East HSE Technical Forum	Abu Dhabi
UK	October 18	UK Spill – Spill Science Seminar	Southampton
MALTA	November 2-3	JOIFF Fire & Explosion Hazard Mgmt. Conference	St. Julians

To request posting of an event of interest to the Spill Response Community please send details to the Editor

New products and services

KHEMSOFT: ENVIRONMENTALLY SUSTAINABLE NON-DESTRUCTIVE INDUSTRIAL CLEANING

April 4 - A new industrial cleaning solution offered by Khemsoft called dry ice blasting is an environmentally friendly and sustainable cleaning method that can help any business improve their environmental impact. Whether the commercial business needs a dry clean, they are trying to reduce the amount of water or chemicals used or are trying to enhance sanitation or cross-contamination prevention programs, dry ice blasting provides the environmentally sustainable answer.

Khemsoft's dry ice blasting equipment provides a quick, safe, non-toxic and economical cleaning solution for facilities, industrial equipment, machinery, machine tools and assembly line equipment. Any item that is part of a production process can be cleaned on-line and without requiring cool-down. More info: <http://www.khemsoft.com/dry-ice-blasting/>

POLLUTION CONTAINMENT VALVE



The Toggleblok™ is a water-tight and failsafe valve for firewater, pollution, flood water or spill containment for organisations obliged to comply with UK environmental protection regulations, according to the CIRIA 736 industry standard guidance.

- Automatically locking valves
- Retrofit to existing drains
- Radio controlled
- Self powered solar back up
- Link to existing fire system
- Cost effective solution

More info: <http://penstocksolutions.co.uk/>

FLOATING TRASH BARRIER



Picture of a floating trash barrier, 7 days after deployment. The barrier is designed and deployed by AlphaMERS Ltd.

The trash is accessible from riverbank and can be easily removed by municipal workers.

The location of deployment in this case is only 10 meters away from the river.

More info: <http://alphamers.com/>

ISCO MEMBER, IMBIBER BEADS INTRODUCES ACTIVATION AWARENESS TECHNOLOGY™

"Adding another leading-edge piece of technology to our suite of spill response tools further positions Imbiber Beads® products well in advance of anything else currently available on the market," said IMBTEC President/CEO John Brinkman. "Many fuels and solvents are colorless and when fuel or solvent spills happen it is often difficult to visually observe where the spill is. Our new Activation Awareness Technology™ (AAT™) eliminates the guess-work; you not only can actually see Imbiber Beads® removing the contaminant but you can also observe when the product is saturated and needs to be exchanged for a fresh unit."

Imbiber Beads® Activation Awareness Technology™ (AAT™) is the only color changing indication product on the spill response market. It has the ability to change the color when interacting with organic liquids – going from white in its natural state to pink at activation to a strong red at saturation. This provides responders with a visual alert as to when the chemicals is being absorbed. *Press release from Imbibitive Technologies* [Read more](#)

ISCO MEMBER, CHUKAR WATERJET DELIVERS ROV-DEPLOYABLE WATERJET SYSTEM TO MAJOR OFFSHORE OIL AND GAS CONTRACTOR



Chukar's powerful underwater waterjet cutting and blasting systems improve the safety and effectiveness of subsea operations and have numerous advantages over conventional subsea cutting and cleaning tools, giving operators increased flexibility and access to larger projects. Unlike conventional tools, waterjet cuts without heat, reducing the hazard of igniting trapped pockets of gas during cutting. In addition, the tools used in a waterjet system cannot bind in the cut, jeopardizing asset integrity.

Chukar's subsea waterjet equipment has numerous applications for deepwater emergency response operations, salvage operations, and rapid de-mobilization operations. Waterjetting equipment also may be used to provide turbulence in a stream of methanol for hydrate remediation, an application Chukar developed in emergency response to the Gulf oil spill, when the company was asked to rapidly manufacture a system to clear a clogged containment system 1500 meters underwater.

Chukar Waterjet will unveil its new SUB-JET 3000™ ROV-attachable waterjet system at the OTC Offshore Technology Conference, May 2-5 in Houston. Look for Chukar in outdoor booth 546.

More info: www.chukarwaterjet.com

NATIONAL RESPONSE CORPORATION ACQUIRES ENPRO SERVICES

April 11 - National Response Corporation ("NRC") announced today it has acquired ENPRO Services, Inc., adding to its national footprint and expanding its full line of environmental, emergency response, and industrial services.

Since 1983, ENPRO has been providing essential environmental, emergency response, and industrial services to the energy, transportation, industrial, insurance, and municipal sectors. Employing over 250 personnel, ENPRO is a customer-focused services company with 9 offices and 2 waste treatment, storage, and disposal facilities ("TSDF") throughout the Northeastern U.S.

NRC provides a broad range of environmental, emergency response, and industrial services, including industrial cleaning and maintenance, HAZMAT emergency response, oil spill response and cleanup, industrial firefighting and rescue, waste management, site remediation, abatement and decommissioning, equipment rental packages, and marine services. NRC is the largest commercial oil spill response organization ("OSRO") in the U.S. and has operations worldwide.

"For more than 24 years, NRC has been renowned for its oil spill response and cleanup capabilities. With several strategic acquisitions over the past several years including ENPRO Services, Op-Tech Environmental Services, Sureclean Limited, Emerald Alaska, and Specialized Response Solutions, we now provide a broader range of environmental and industrial services than any other company of our kind. We have the size and capabilities to handle any project – from industrial to environmental, on land or at sea." *Press release from NRC* <http://nrcc.com/>

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