



ISCO NEWSLETTER

The Newsletter of the International Spill Response Community

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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 organisations.

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International news

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

U.S., CUBAN OFFICIALS TO MEET IN FLORIDA ABOUT CO-OPERATION ON OIL SPILL RESPONSE



Government officials from the United States and Cuba will meet in Fort Lauderdale on an agreement to help one another in oil spill cleanups, like the Deepwater Horizon disaster in 2010. [AP]

February 21 – Two months after the Trump administration announced it would open no more of Florida's coast to oil drilling, U.S. government agencies will meet with their counterparts from Cuba about protecting the state's shores from oil spills there.

The State Department confirmed to the Tampa Bay Times that the talks will take place in March in Broward County.

The discussions come under an accord signed by the Obama administration for the two nations to work together on containing and

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These heavily-trafficked areas play a globally important role in transportation of energy resources, food, and industrial products. Among those transportations, the shipment of the crude oil and Hazardous and Noxious Substances (HNS) especially increased significantly in recent years. Once a large scale maritime incident occurs, it may involve a threat to the lives and/or oil spill from ships, which has a significant impact on not only marine environment but also economy of the coastal states as well as global maritime transportation itself. In order to prevent and minimize such loss of lives and impacts posed by the oil spill, the coastal states in Asian region must have adequate capacity in maritime Search and Rescue (SAR), maritime disaster prevention and marine environment protection.

14 representing ex-participants joined the Program from 5 countries: Indonesia, Malaysia, the Philippines, Sri Lanka, and Vietnam. During the 7-day Program, ex-participants were offered an opportunity for the on-board observation of MMEA-JCG Combined Exercise as well as special lectures by experts of International Tanker Owners Pollution Federation Limited (ITOPF), MMEA and JCG. *MREM* [Read more](#)

IOPC FUNDS ISSUES NEW GUIDELINES FOR PRESENTING CLAIMS FOR ENVIRONMENTAL DAMAGE

February 19 - The new Guidelines for presenting claims for environmental damage, approved by the 1992 Fund and Supplementary Fund Assemblies at their October 2017 sessions, are now available via the publications section of the website. These Guidelines set out what should be done following an oil spill to present claims for environmental damage covered by the international liability and compensation regime, that is, the reimbursement of costs for post-spill studies and for reinstatement of environments damaged by oil. These latest Guidelines are for inclusion within the Claims Information Pack which is available to download from the Publications page. Hard copies are available on request. <http://www.iopcfunds.org>

Incident reports (in chronological order)

COLOMBIA: OIL PIPELINE CANO LIMON REMAINS CLOSED AFTER LATEST ATTACK

February 16 - No oil has been pumped through the Cano Limon-Covenas pipeline, Colombia's second largest, for 38 days due to repeated attacks by Marxist ELN rebels, military sources and Ecopetrol said on Friday after the latest raid. The attack on Thursday caused an oil spill near the municipality of Toledo, in Norte de Santander province, close to the border with Venezuela. *Reuters* [Read more](#)

International news (continued)

cleaning any oil spills within one country's borders that threatens the other.

An oil spill in Cuban waters could reach the Florida Keys in under a week. And the worry is mutual.

"Cubans have as great a concern about spill pollution arriving from a U.S. accident in the Gulf of Mexico as Florida does about a spill arriving from Cuba," said Lee Hunt, an oil drilling consultant based in Houston. *Tampa Bay Times* [Read more](#)

JAPAN INTERNATIONAL CO-OPERATION AGENCY (JICA) SUPPORTS PROMOTION OF MARITIME SAFETY IN ASIA IN PARTNERSHIP WITH JAPAN COAST GUARD AND MALAYSIAN MARITIME ENFORCEMENT AGENCY

February 19 - The Japan International Cooperation Agency (JICA), in collaboration with Japan Coast Guard (JCG) and Malaysian Maritime Enforcement Agency (MMEA), conducted Follow-up Program for JICA's training program in Japan: "Search and Rescue, Disaster Prevention and Environment Protection Course for Maritime Safety Officials at the Operational Level" during 27 January - 2 February, 2018, in Kuantan, Port Klang, and Kuala Lumpur.

The economy in Asian region has been steadily and robustly growing, and the region remains the global growth leader. In line with such high economic development in the region, the volume of maritime traffic increased significantly over the recent decades. The region contains some of the busiest waterways in the world such as the Strait of Malacca, the Strait of Singapore, and the South China Sea.

Incident reports (continued)

USA: OIL SPILL CLEAN-UP UNDERWAY IN SUBURBAN OKLAHOMA CITY

February 20 - A spokesman for the Environmental Protection Agency says cleanup is underway in suburban Oklahoma City where about 2,000 barrels of oil spilled from a ruptured pipeline. EPA on-scene coordinator Mike McAteer said Tuesday workers are skimming oil off the surface of a 7-acre pond near a neighborhood outside Yukon, about 17 miles (27 kilometers) west of Oklahoma City. *The Seattle Times* [Read more](#)

UK: RIVER LEA OIL SPILL: BOATS STOPPED BETWEEN TOTTENHAM AND HACKNEY WICK TO CONTAIN POLLUTION OUTBREAK ONE WEEK ON



Photo: Swans contaminated from an oil spill in the River Lea are treated at The Swan Sanctuary. Picture: The Swan Sanctuary

February 20 - Waterways are shut between Stonebridge Lock just north of Tottenham and the bottom lock of the Hertford Union Canal in Hackney Wick. Both sets of gates are locked.

To date, this oil pollution has been spotted over a 7km stretch of the River Lea affecting both the watercourse and local wildlife. Boat traffic debris and the wind are complicating the clean-up process. However, booms are in place to enclose the oil and the Canal and River Trust have closed some locks to help contain it as much as possible. *Hackney Gazette* [Read more](#)

PERU: OIL SPILL AFFECTS INDIGENOUS COMMUNITIES IN THE AMAZON

February 21 - A new oil spill, which affects indigenous communities and rivers, occurred over the weekend following the rupture of a pipeline in the Peruvian Amazon, the Environment Ministry announced on Tuesday.

According to community estimates, the spill amounts to a thousand barrels of oil and occurred in an area where the pipelines are buried a few meters from the community.

The accident occurred on Sunday in the pipeline located in the district of Andoas, province of Datem del Marañón, in the region of Loreto (about 1,000 kilometers north-east of Lima). *Maritime Herald* [Read more](#)



JAPAN: OIL FROM SUNKEN SANCHI TANKER WASHES UP IN JAPAN

February 22 - Oil that reached islands in southern Japan earlier this month is highly likely to have come from the sunken Iranian tanker Sanchi, the Japan Coast Guard said on Thursday.

Samples of oily matter that washed up on Feb. 8 on the shores of the Okinoerabu and Yoron islands in the Amami chain were found to be linked to the Sanchi's sinking, the Coast Guard said.

An oil slick continues to be seen near where the Sanchi sank. The slick is located about 315 km (197 miles) west of Amami-Oshima island and is about 700 metres long and 20 metres wide, though oil has been evaporating from the fringes, the Coast Guard said in a statement on Thursday. *gCaptain* [Read more](#)

VIETNAM: CARGO SHIP SANK IN GULF OF TONKIN, CREW RESCUED

February 23 - EPIRB from general cargo ship BINH NGUYEN 86 was activated at around 0300 Hanoi time Feb 23, in position 18 36N 106 43E, some 40 nm off Ha Tinh Province coast, Gulf of Tonkin, Vietnam. MRCC Vietnam directed to probable disaster site vessels in the vicinity, including Vietnamese container ship, which was en route from Haiphong to Vung Tau. On arrival to disaster site, container ship found two life rafts and successfully rescued 8 people, all crew of sank freighter. *Maritime Bulletin* [Read more](#)

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

FIJI: SUVA HARBOUR SAFE FROM OIL SPILL, SAYS NAISARA

February 21 - What could have been a major spill in the Suva Harbour last year from the sunken vessel, Southern Phoenix was avoided, thanks to the quick response by the relevant bodies.



Photo: MSAF Manager Safety, Compliance and Response, Captain Philip Hill (standing) attends to a group discussion with Fiji Ports Corporation Limited's Local Wharf Coordinator Necani Vorakitaki, (sitting left) Senior Ports Security Officer Neumi Radobui and Local Wharf Assistant Laisani Tagilala at the Oil Spill Workshop on February 20, 2018. Photo: Fiji Ports Corporation Limited

This was stressed by Deputy secretary for Transport, Lui Naisara while opening the three- day Oil Spill Command Workshop at the Mua-i-Walu House yesterday.

In terms of state readiness for combating marine spill in Fiji waters, Mr Naisara said Fiji has developed and is implementing the National Spill

Contingency Plan (NATPLAN) 2015; the National Marine Response Strategy 2018-2022 is been finalised by MSAF.

It was revealed that Government is currently working towards the ratification of the International Convention on the Oil Pollution Preparedness, Response and Cooperation 1990 (OPRC). *Fiji Sun* [Read more](#)

NEW ZEALAND: ORANGE PEELS AND PRACTICE OIL SPILLS

February 22 - An oil spill exercise took place at New Zealand's busiest port today. While the risk of a marine oil spill is extremely low, for the group tasked with responding to these events along the Bay of Plenty coastline, 12 nautical miles out to sea, it's important they are prepared. As well as Regional Council staff, those present represented the oil industry, Port of Tauranga, Maritime New Zealand, emergency services and the Department of Conservation.

Regional On Scene Commander for the day, Adrian Heays, says Bay of Plenty is unique in its collaborative approach to oil spill response. "Because every spill is different and conditions and tides are never the same our approach in responding always varies too. This means that those who may be involved in an oil spill response need to constantly be on their game. These exercises enable us to test that capability on the fly and feel comfortable with the procedures and equipment," he says. *Bay of Plenty Regional Council* [Read more](#)

USA: NEW DEVICE MEASURES CONTAMINATION IN WATER

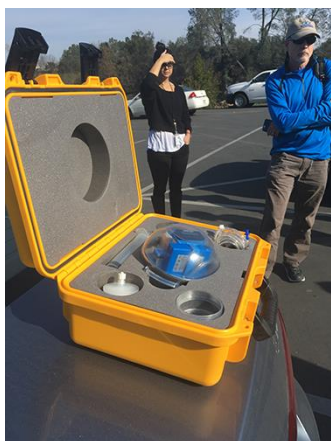


Photo: The newly updated device incorporates accurate measurement of water flowing through the cartridge, such that laboratory results can be reported as concentrations, to parts per trillion per liter for many organic contaminants. Image credit: NOAA

February 23 - On February 1, OR&R staff joined representatives from California state agencies at Lake Natoma, California for a demonstration of a new, improved device for measuring contamination in water. The CLAM (Continuous Low-Level Aquatic Monitoring) apparatus developed by [Analytical](#) houses a small submersible pump and flow meter, and passes water through a solid phase extraction cartridge. Contaminants are collected by the cartridge as water passes through. The battery-operated device can be deployed for hours, even overnight, allowing large measured volumes of water to be tested. This offers several advantages: water quality measurements representing conditions over a wide time interval; an ability to detect very low concentrations; and ease of handling and transport – the retrieved cartridges may be stored for weeks or even months before shipment to the lab, unlike water samples that require lab processing within a week. *NOAA OR&R* [Read more](#)

Note from Editor – There seems to be an unusual shortage of interesting stories this week. The time available for searching is limited and it would be a great help if members and other readers would be more pro-active in sending interesting news items for publication to info@spillcontrol.org All contributions will be acknowledged.

ISCO news

ISCO AT INTERSPILL IN LONDON – 13-15 MARCH, 2018 AT ExCel

You are invited to visit the ISCO stand at Interspill. This year ISCO will be co-located on **Stand S100** with UK Spill and Spillcon 2019. This puts us in a prime location and also helps cement our good relationships with UK Spill (the organiser of Interspill) and Spillcon (who will be organising the next triennial conference to be held in Perth, Australia in May, 2019).

ISCO Secretary Matthew Somerville and Committee Member Capt. Bill Boyle are looking forward to seeing you.

ISCO 2018 AGM

In the past it has been normal to try and co-ordinate the ISCO AGM with each year's triennial conference of IOSC, Interspill or Spillcon. We are not doing that this year for Interspill 2018 in London for a number of reasons.

First our chairman Dave Usher will not be attending this conference instead having covered the Clean Gulf conference in Houston for us in December.

It has proven over the years difficult to bring together all or even the majority of members, the council representatives or even the executive committee. Conferences are a key time for members and while a meeting may only take a couple of hours if that's in your busiest week for new business, renewing existing contacts, knowledge sharing and social renewal than it's a big ask.

Finally ISCO is in a transition phase where we are looking to update our mission, objectives, constitution and articles of association as well as to plan for the smooth succession of key figures in the organisations 33 year history. These changes and associated discussion need more time that can be obtained at a meeting which is fitted in and around other's commitments.

We therefore intend to delay the AGM until later in the year and to conduct it as a telephone conference. This will allow us to ensure our global membership can participate and for us to disseminate discussion documents to members, council and executive committee on the way forward for ISCO. Once time has been allowed for feedback and alternatives to be raised and disseminated a telephone conference will be organised to serve as our AGM.

While the details of the changes will be determined by the AGM it is likely that they will include an increase in members fees and linked with that a change in the distribution of the newsletter.

ISCO has never been a profit making organisation but it does need to cover its costs in representing its members, and key among these in generating and delivery of the weekly newsletter. Currently members fund these activities while others choose to simply benefit from the free newsletter.

For those readers of the ISCO news who are not members your opportunity to be involved in setting the future path and to join at the existing rates is now. ISCO will be attending Interspill and co-located with the host nation trade association UK spill at stand **S100**.

RESPONSE TO FLOODING INCIDENTS

In recent years several ISCO members have had an important role in the response to flood events. Many response contractors have the capability to mobilise high capacity pumping systems. Several members who manufacture containment booms have extended their product ranges to include flood barrier systems.

With fewer spills and the high cost of maintaining experienced response teams on 24/7 call-out opportunities to respond to other emergency situations can make an important economic contribution.

With this in mind, the Flood & Coast Exhibition and Conference being held next month in the UK has just been added to the Upcoming Events Summary on page 11. There are also a number of specialist publications. One such is *Flood News* – currently not available via an URL link but available on free subscription on request to phil@business-synergies.co.uk No doubt there are other relevant events and publications and members are invited to share information by sending to the Editor at info@spillcontrol.org.

On the matter of diversification in the matter of emergency response, readers are invited to suggest other ideas and make comments.

Case history

VIDEO: SMIT SALVAGE REMOVES THE TS TAIPEI



Case history (continued)

February 19 - Royal Boskalis Westminster has released video footage from the 2016 salvage of the container ship TS Taipei off New Taipei City, Taiwan.

The TS Taipei drifted aground on March 10, 2016 after losing power. She settled onto the bottom in the surf zone, and after two weeks of pounding from the waves she began to break up. The wreck eventually separated into two sections.

When she went aground, the Taipei reportedly carried about 70,000 gallons of fuel, plus lube oil and oily wastewater. A combined task force worked to lighten the pollutants and over 100 workers were dispatched to clean the beaches at New Taipei.

Royal Boskalis subsidiary Smit Salvage was hired for the task of removing the vessel's containers, refloating the wreck and minimizing environmental harm. The company deployed the 1,000-ton-capacity floating sheerlegs Cyclone and the semi-submersible barge Giant 6 to carry out the work.

The sheerlegs first pulled the Taipei's containers and hatch covers, then her deckhouse and main engine. With less weight in the stern section, and with a lift from the sheerlegs, the salvors refloated the stern enough to shift it onto the Giant 6's deck for removal.

Smit refloated the bow by patching holes in the holds and dewatering to increase buoyancy. The repairs were enough to allow the team to tow the bow into port on its own bottom. The vessel's hull was dismantled under Smit's supervision. *The Maritime Executive* [Read more and watch the video](#)

Science and technology

A FURTHER VIEW ON BITUMEN AND DILUTED BITUMEN (DILBIT)

Comment on previous articles received from Dr Merv Fingas, Hon.FISCO, Member of ISCO Council for Canada

In the past three issues of this newsletter, concerns have been presented about the properties of Dilbit. Readers were suggested to read the 2015 Report of The Royal Society of Canada Expert Panel: *The Behaviour and Environmental Impacts of Crude Oil Released into Aqueous Environments* -

http://www.rsc-src.ca/sites/default/files/pdf/OIW%20Report_1.pdf

which contains many references to spills of diluted bitumens together with recommendations for further studies.

Further the US National Academy released a study specifically on Dilbit;

<https://www.nap.edu/catalog/21834/spills-of-diluted-bitumen-from-pipelines-a-comparative-study-of> .

Readers are also invited to look at the many reports on Dilbit specifically that have come out since. There are more than 50 peer-reviewed reports on Dilbit since this report, making it the most-studied pipeline oil in the past 5 years. It is important to look at the facts of the situation as there are now many myths surrounding Dilbit, many of which are far from reality.

What is Bitumen? Bitumen is simply weathered crude oil. It is typically crude oil that has been biodegraded and evaporated over millions of years. It is a deposit of crude oil that was not geologically capped and thus was subject to biodegradation and evaporation processes. It is not tar. Tar is the residue of coal processing or burning. Bitumen comes from oil sands in Alberta and similar deposits around the world.

What is Dilbit? As Bitumen is too viscous to pump through pipelines, it must be diluted to a viscosity of less than about 300 mPa.s. This is carried out with a diluent such as gas condensate or naphtha. Gas condensate is a natural product from gas wells and is the higher boiling point fraction that is typically liquid at near-to-room temperatures. Naphtha is a refined product that is often used as a domestic solvent.

Sinking Behaviour - One of concerns of people is the sinking behaviour of the Bitumen component of Dilbit once the diluent evaporates. This is a misplaced concern. Studies have shown that at typical temperatures in the summer (about 20° C) that it would take about 2 weeks for Dilbit to reach the density of freshwater, however, it would never reach the density of seawater by density changes alone. In winter, it would take about twice as long. So, on fresh water there is plenty of time to perform a cleanup of spilled Dilbit on freshwater and on seawater, it may never sink. Furthermore, some Bitumens do not have a density greater than freshwater and thus would not sink by density changes alone.

Aquatic Toxicity - The aquatic toxicity of Dilbit varies a great deal, depending mostly on the chemistry of the diluent. The aquatic toxicity of the Bitumen itself, is almost negligible. The diluent may contain BTEX (Benzene, Toluene, Ethylbenzene and Xylenes) which may enhance the aquatic toxicity. Such light components will, however, evaporate

Science and technology (continued)

quickly if the product is spilled. Studies show that Dilbits are generally lesser in aquatic toxicity than light crude oils.

Studies - One of the recent criticisms of Dilbit is that it needs more study. As noted above there are many studies on Dilbit, typically about 25 peer-reviewed studies per year, the most of any product in the past 5 years. Examples of peer-reviewed studies in the past year alone follow:

- Alderman, S.L., Lin, F., Farrell, A.P., Kennedy, C.J., Gillis, T.E. Effects of diluted bitumen exposure on juvenile sockeye salmon: From cells to performance (2017) *Environmental Toxicology and Chemistry*, 36 (2), pp.354-360.
 - Alderman, S.L., Dindia, L.A., Kennedy, C.J., Farrell, A.P., Gillis, T.E. Proteomic analysis of sockeye salmon serum as a tool for biomarker discovery and new insight into the sublethal toxicity of diluted bitumen (2017) *Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics*, 22, pp. 157-166.
 - Alsaadi, F., Hodson, P.V., Langlois, V.S. An Embryonic Field of Study: The Aquatic Fate and Toxicity of Diluted Bitumen (2018) *Bulletin of Environmental Contamination and Toxicology*, 100 (1), pp. 8-13.
 - Barron, M.G., Conmy, R.N., Holder, E.L., Meyer, P., Wilson, G.J., Principe, V.E., Willming, M.M. Toxicity of Cold Lake Blend and Western Canadian Select dilbits to standard aquatic test species (2018) *Chemosphere*, 191, pp. 1-6.
 - Boutet, L., Laforest, S., Lambert, P.G., Pourhanifeh, R., Goldthorp, M., Brown, C.E., Harper, J., Britton, L., Sergy, G. Mapping the penetration and retention potential of two weathered diluted bitumen crude oils for the shorelines of Northern British Columbia, Canada (2017) 40th AMOP Technical Seminar on Environmental Contamination and Response, pp. 67-81.
 - Hossain, S.Z., Mumford, K.G., Rutter, A. Laboratory study of mass transfer from diluted bitumen trapped in gravel (2017) *Environmental Science: Processes and Impacts*, 19 (12), pp. 1583-1593.
 - Hossain, S.Z., Mumford, K.G. Capillary pressure-saturation relationships for diluted bitumen and water in gravel (2017) *Journal of Hydrology*, 551, pp. 306-313.
 - King, T.L., Robinson, B., Cui, F., Boufadel, M., Lee, K., Clyburne, J.A.C. An oil spill decision matrix in response to surface spills of various bitumen blends (2017) *Environmental Science: Processes and Impacts*, 19 (7), pp. 928-938.
 - Madison, B.N., Hodson, P.V., Langlois, V.S. Cold Lake Blend diluted bitumen toxicity to the early development of Japanese medaka (2017) *Environmental Pollution*, 225, pp. 579-586.
 - Nimana, B., Verma, A., Di Lullo, G., Rahman, M.M., Canter, C.E., Olateju, B., Zhang, H., Kumar, A. Life Cycle Analysis of Bitumen Transportation to Refineries by Rail and Pipeline (2017) *Environmental Science and Technology*, 51 (1), pp. 680-691.
 - O'Laughlin, C.M., Law, B.A., Zions, V.S., King, T.L., Robinson, B., Wu, Y. Settling of dilbit-derived oil-mineral aggregates (OMAs); transport parameters for oil spill modelling (2017) *Marine Pollution Bulletin*, 124 (1), pp. 292-302.
 - Sergy, G., Harper, J., Laforest, S., Lambert, P.G. Scientific support information and response guidance for dilbit spills impacting marine shorelines (2017) 40th AMOP Technical Seminar on Environmental Contamination and Response, pp. 50-66.
 - Taylor, E., Laforest, S., Owens, E. Potential dilbit residence on coarse-sediment shorelines (2017) 40th AMOP Technical Seminar on Environmental Contamination and Response, pp. 20-33.
 - Yang, Z., Zhang, G., Hollebone, B.P., Brown, C.E., Yang, C., Lambert, P., Landriault, M., Shah, K. Fate of oxygenated components for solar irradiated diluted bitumen in saltwater (2017) 40th AMOP Technical Seminar on Environmental Contamination and Response, pp. 415-440.
 - Yang, Z., Zhang, G., Hollebone, B.P., Brown, C.E., Yang, C., Lambert, P., Wang, Z., Landriault, M., Shah, K. Fate of oxygenated intermediates in solar irradiated diluted bitumen mixed with saltwater (2017) *Environmental Pollution*, 231, pp. 622-634.
- ISCO thanks Dr Fingas for this useful contribution. Other readers are invited to comment.*

Publications

WILDLIFE RESPONSE PREPAREDNESS GOOD PRACTICE GUIDELINES AVAILABLE IN SIX LANGUAGES

February 8 - French, Italian, Portuguese, Russian, and Spanish versions of the IPIECA Wildlife response preparedness: Good practice guidelines for incident managers and emergency response personnel are now available online at [the IPIECA website](#), in addition to the original English language publication. These guidelines provide practical information on what is needed to effectively prepare for and respond to an oiled wildlife incident.

The good practice guide and subsequent translations were developed as part of the Oil Spill Response Joint Industry Project (OSR-JIP), which was managed by IPIECA (the global oil and gas industry association for environmental and social issues) on behalf of the International Association of Oil and Gas Producers (IOGP).

IPIECA has also recently published a new Technical Support Document, Key principles for the protection, care and rehabilitation of oiled wildlife, (currently available in English only), developed as part of the OSR-JIP Global Oiled Wildlife Response System (GOWRS) Project, involving leading oiled wildlife response organisations from around the world. This document complements and enhances the information provided in the Wildlife response preparedness guide, which can be accessed [here](#). Thanks to Oiled Wildlife EU <http://www.oiledwildlife.eu/>

Publications (continued)

IOPC FUNDS: PUBLICATION OF NEW CLAIMS INFORMATION PACK

February 22 - The IOPC Funds' Claims Information Pack, which was originally published in 2014, has been updated and re-issued for 2018. The pack now contains the following publications:

- Claims manual
- Guidelines for presenting claims in the fisheries, mariculture and fish processing sectors
- Guidelines for presenting claims in the tourism sector
- Guidelines for presenting claims for clean-up and preventive measures
- Guidelines for presenting claims for environmental damage (new)
- Example Claim Form

The above publications are available to download and hard copies of the entire pack are available on request. <http://www.iopcfunds.org/news-events/detail/item/892/>

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

AMSA Aboard	News from the Australian Maritime Safety Authority	December 2017
Newsletter from George Holliday	News and commentary on HSE issues from George Holliday	On request via email
Bow Wave	Sam Ignarski's Ezine on Marine & Transport Matters	Current issue
Cedre Newsletter	News from Cedre in Brittany, France	December 2017
CROIERG Enews	Canberra & Regions Oil Industry Emergency Response Group	October 2017
EMSA Newsletter	News from the European Maritime Safety Agency	February 2018 issue
EUROWA Newsletter	European Oiled Wildlife Response Assistance Module	October 2017
IMO News Magazine	News from the International Maritime Organization	Winter 2017 issue
IMO Publishing News	New and forthcoming IMO publications	January 2018
Intertanko Weekly News	International news for the oil tanker community	February 23, 2018
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	Q1 2018 issue
Maritime Executive Magazine	Often contains articles of interest to the spill response community	Sept.-Oct. 2017
MOIG Newsletter	News from the Mediterranean Oil Industry Group	January 2018 issue
NOWPAP Quarterly	News from the North West Pacific Action Plan	Quarter 2, 2017 issue
Ocean Orbit	Newsletter from the International Tanker Owners Pollution Federation	August 2017
OCIMF Newsletter	News from the Oil Companies International Marine Forum	January 2018 issue
PEMSEA E-Updates	Healthy oceans, people and economies in the East Asian Seas	January 2018
Pollution Online Newsletter	News for pollution prevention & control professionals	February 21, 2018
Safe Seas, Clean Seas	Quarterly Newsletter from Maritime New Zealand	August 2017 issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	December 2017 issue
Spill Alert	Newsletter from the UK Spill Association	December 2017 issue
Technology Innovation News Survey	News from US EPA – Contaminated Site Decontamination	Jan. 1-15, 2018
Transport Canada Newsletter	News and articles re transport of dangerous goods in Canada	June 2017 issue
UK NCEC	News from the National Chemical Emergency Centre	July 2017 issue
USA EPA Tech Direct	Remediation of contaminated soil and groundwater	February 1, 2018

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

Training

USA: INCIDENT COMMAND SYSTEM (ICS) 300 CLASS TO BE OFFERED IN SEATTLE

February 16 - The NOAA Disaster Preparedness Program (DPP) is offering a NOAA-specific ICS-300 class on April 3-5, 2018 in Seattle, Washington that meets the requirements of the National Incident Management System (NIMS). This course was specifically designed for NOAA staff and provides valuable information about expanding incidents, NOAA's roles during emergencies, the role of Homeland Security Program Office, NOAA mission assignments, the Stafford Act during declared emergencies, OPA90, etc. The 3-Day Course (all ICS-300 classes are three-day events) is a combination of lecture and scenario-based training activities. It is highly encouraged that all IMT Members take this course or an ICS-300 course provided by FEMA, USCG, or other agency. Many others in NOAA who respond to or support NOAA in managing emergencies would benefit as well. The class will be limited to 30 students. To apply for this course, please complete the form [here](#). If the link does not work, please copy/paste the following URL into your browser: <https://goo.gl/forms/2BJ1yxF3zkoSxwlo2> Thanks to NOAA OR&R

USA: ELASTEC'S INLAND BOOM SHOP – INTENSIVE HANDS-ON TRAINING

February 20 - Elastec's INLAND BOOM SHOP is an intensive, hands-on workshop designed for responders who require in-depth river booming training.

Cody Harris, president and co-founder of the Whitewater Rescue Institute and WRI Environmental Response, will be the lead trainer at the workshop.

The three-day workshop will begin with a full day of classroom orientation at Elastec in Carmi, Illinois followed by two days of rigorous booming on the Wabash River in New Harmony, Indiana. The INLAND BOOM SHOP qualifies as an

Training (continued)

8-hour Hazwoper refresher course.

Price for the comprehensive Inland Boom Shop is \$1,250 per person and includes lunches. Travel, lodging, breakfast, and evening meals are additional. Boom Shop is limited to 20 participants. To guarantee a space, registration with payment is encouraged by Thursday, March 15, 2018.

[Visit the Inland Boom Shop 2018 page for more information.](#)

Events

ONLY 15 DAYS WEEKS UNTIL INTERSPILL CONFERENCE & EXHIBITION OPENS IN LONDON

[View the Conference Programme](#)

Interspill is the forum to discover the wide range of leading-edge initiatives which are improving global readiness and demonstrate why oil spill preparedness and response remains relevant to its multiple stakeholders, adding true value to those attending.

Here are 3 reasons to attend:

1. Learn the latest trends and market insights at the Conference covering topics such as Surveillance, Dispersants, Situational Awareness, Effective Exercising and Case Studies.
2. Explore the Exhibition and get a first-hand look at the latest services and products available for prevention, control and clean up from over 70 companies.
3. Connect through exciting opportunities and build new connections with attendees from 65+ countries through the interactive seminars and workshops, official networking reception and exhibitors' own events.

Conference speakers include –

[Richard Proctor](#), Co-Chairman, UK Spill Association

[Kitack Lim](#), Secretary-General, International Maritime Organization (IMO)

[Markku Mylly](#), Executive Director, EMSA

[Johan Marius Ly](#), Director, Department for Emergency Response, Norwegian Coastal Administration

[Richard Johnson](#), Technical Director, ITOPF

[Martin Cramer](#), Principal Emergency Response Consultant, ConocoPhillips

[Anne Le Roux](#), Emergency Response Coordinator, Cedre

[Jon Moore](#), Marine Environmental Consultant, Coastal Assessment, Liaison & Monitoring

[Dr Ann Zhang](#), Technical Adviser, ITOPF

[Mark Cockram](#), Team Leader Deepwater Wells Process Safety, Shell

[Ursula Dockerty](#), DPA Team, Shell Trading & Shipping

[Nai Ming Lee](#), Response People Manager, Oil Spill Response Ltd

[Ian Midgley](#), Logistics Manager, Oil Spill Response Ltd

[Billy Powell](#), Manager, Emergency Preparedness and Response, Shell Emergency Management

[Stig Wahlstrøm](#), Project Manager, Norwegian Coastal Administration

[Prof Per Johan Brandvik](#), Senior Scientist, SINTEF Ocean

[Prof Michel Boufadel](#), Director, New Jersey Institute of Technology

[Garry Dickinson](#), SWIS Subsea Engineer, Oil Spill Response Ltd

[Karina Heitnes Hofstad](#), Specialist Process Technology, Statoil

[David Campion](#), Technical Adviser, ITOPF

[Samy Djavidnia](#), Digitalisation and Application Development, European Maritime Safety Agency (EMSA)

[Susannah Domaille](#), Technical Support Coordinator, ITOPF

[Dr Ed Owens](#), President, Owens Coastal Consultants

[Dr Henk Renken](#), Oil Spill Technology Advisor, BP

[Richard Santner](#), Group Technical Authority - Oil Spill Preparedness & Response, BP International

[Curt Clumpner](#), Deputy Director Animal Care Operations, Oiled Wildlife Care Network, UC Davis

[Richard Davi](#), Environmental Associate, ExxonMobil Biomedical Sciences

[Adam Grogan](#), Head of Wildlife, RSPCA

[Paul Kelway](#), Senior Technical Adviser, Sea Alarm Foundation

[Register Now](#)

Events (continued)

INTERSPILL PLUS – FREE TO ATTEND SEMINARS IN THE EXHIBITION FLOOR THEATRE

The Spill Industry Seminars will run across the three days of the event and will comprise of a series of exhibitor presentations highlighting developments in the spill industry. [More info](#)

SHORT COURSES

Held on Monday 12 March 2018, these courses will offer an introduction to Spill Preparedness & Response and Claims & Compensation. [More info](#)

SCIENCE WORKSHOPS

The Science Workshops, organised by Cedre and ITOPF, are one-hour sessions focused on presentations of the latest industry developments. [More info](#)

POSTER EXHIBITION

Topics and Presenters include:

GNOME Suite for Oil Spill Modeling: Dr Christopher Barker, Oceanographer, NOAA Emergency Response Division
Mapping the Potential of Subsea Dispersant Injection (SSDI): A Simplified Visualisation Indicating When to Use/Not to Use
Prof Per Johan Brandvik, Senior Scientist, SINTEF Ocean
Infrared Polarimetric Sensing of Oil on Water: Dr David Chenault, President, Polaris Sensor Technologies
Regional Industry Technical Advisory Group: Arti Chopra, Senior Response Specialist, Oil Spill Response Ltd
A Rapid Assessment Toolkit for Assessing the Ecological Impacts of Spilled Oil: Katherine Colvin, PhD Student, Exeter
Marine Pollution Response Services of the European Maritime Safety Agency: Victor Diaz Seco, Senior Project Officer, and Lito Xirotyri, Senior Project Officer, Cooperation & Information, Pollution Response Services, European (EMSA)
EMSA's Integrated Maritime Services: Enhancing Operational Maritime Awareness at EU Level: Samy Djavidnia, Digitalisation and Application Development, European Maritime Safety Agency (EMSA)
Advantages Realized in the Shoreline Clean-Up Assessment Technique (SCAT) Data Workflow Using Recent Technologies: Andrew Graham, Marine Scientist, Polaris Applied Sciences
Application of Radar and Optical Satellite Imagery in Oil Spill Response: Marta Januszewska, Regional Preparedness Advisor, Oil Spill Response Ltd
The Premiam Initiative: New Scientific Guidelines for Post-Spill Environmental Monitoring: Mark Kirby, Programme Director, Cefas
Analysis of Dispersant to Oil Ratio for Application at Wellhead: Wolfgang Konkel, Environmental Scientist, ExxonMobil
Vulnerability of Developing Countries against Marine Pollution: Bope Bope Lapwong Jean Marie, Head Officer and National Coordinator, Centre de Controle et Surveillance de la Pollution Marine
Impact of Gas Releases on the Sea Surface Level: Stéphane Le Floch, Manager Research Department, Cedre
Is E-Learning the Future? Stephanie Miller, Office Team Lead, SpillConsult
Convergence of Ensemble Simulations for Environmental Risk Assessment: Dr Tor Nordam, Research Scientist, SINTEF
Cycling of PAHs in Vegetation: a New Paradigm for Response and Recovery for Oil Spills in Marshes: Prof John Pardue, Professor and Director, Louisiana State University
Real Time in Situ Oil-Spill Detection Using Ships of Opportunity Equipped with FerryBox System: Siim Pärt, Engineer, Tallinn University of Technology
Hydrocarbon Transport in Marine Sediments and the Influence of Chemical Dispersant Application – Potential Implications for Clean-Up Operations: Luis Perez Calderon, PhD Student, University of Aberdeen
Marine Sediment Oil Degradation Capacity and Effects of Dispersant - Lessons in Monitoring the Deep Sea and Remediation Potential: Lloyd Potts, Postgraduate Researcher, University of Aberdeen
OSRL's United Kingdom Continental Shelf – Aerial Surveillance Capability: James Pringle, Senior Oil Spill Response Specialist, Oil Spill Response Ltd
Assessment of Field Sensors for Dispersant Efficacy Monitoring: Dr Xiubin Qi, Research Scientist, CSIRO
Source Term Analysis of Marine Oil Spill and HNS Release Risk in Chinese Coastal Waters: Bing Qiao, Professor, China Waterborne Transport Research Institute
Modelling Oil Slick Behaviour on the Wadden Sea: Sanne Steenbrink, Researcher & Lecturer, NHL Stenden University
Dispersant Technical Information Sheets – Conveying Multifaceted Toxicity and Effectiveness Data: Geeva Varghese, Country Manager – Australia, Oil Spill Response Ltd and Dr Tom Coolbaugh, Oil Spill Response Advisor, Exxon Mobil Corporation
The Development, Testing and Integration of a Geo-Stabilised Turret for Oil Spill Detection: Daniel White, Response Aviation Manager & Incident Manager, Oil Spill Response Ltd
Production Optimization and Characterization of Trehalose Lipid-Based Biodispersants for Oil Spill Response: Dr Baiyu Zhang, Associate Professor, Northern Region Persistent Organic Pollution Control (NRPOP) Laboratory, Faculty of Engineering and Applied Science, Memorial University

Upcoming events summary

COUNTRY	2018	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
UAE	Feb 28 – Mar 1	Offshore Arabia Conference & Exhibition	Dubai
AUSTRALIA	March 6	2018 National Major Hazard Facilities Forum	Sydney
FINLAND	March 6-8	Oil Spills in Arctic Areas -seminar	Oulu
UK	March 8	Land Condition Symposium 2018	London
UK	March 13-15	2018 INTERSPILL Conference and Exhibition	London
UK	March 13-15	Oceanology International 2018	London
UK	March 14	UK Spill Members' Meeting at Interspill	London
FRANCE	March 16	CEDRE Information Day	Brest
UK	March 20-22	Flood & Coast Exhibition and Conference	Telford
USA	March 20-21	SCAA Annual Meeting & Conference	Arlington VA
RUSSIA	March 22-23	Baltic Sea Day International Environmental Forum	St. Petersburg
BELGIUM	March 22-23	CONCAWE Oil Pipeline Experience Seminar	Antwerp
KUWAIT	April 3-5	Kuwait Oil Spill Conference	Kuwait
USA	April 4-5	Clean Waterways Conference	St. Louis, MO
UK	April 11-12	Castle Archdale 2018 Inland Response Training	Enniskillen, N.I.
LITHUANIA	April 10-12	HELCOM Response Working Group Meeting	Klaipeda
UK	April 9-13	IMO Marine Environment Protection Committee	London
FINLAND	April 17-20	Arctic Shipping Forum	Helsinki
UK	April 26-27	IMO & IOPC Funds w'shop on the HNS Convention	London
UK	Apr 30-May 2	April 2018 IOPC Funds meetings	London
NEW ZEALAND	May 1-3	NZ 5th Contaminated Land Conference	Christchurch
CHINA	May 3-5	IO Expo China	Shanghai
USA	May 7-11	13th Int'l Effects of Oil on Wildlife Conference	Baltimore, MD
UK	May 15	IMO 70 High Level Forum	London
BELGIUM	May 16-17	European Environmental Ports Conference 2018	Antwerp
USA	May 22-24	Inland Boom Shop 2018 (Hands-on Training)	Carmi, IL
UK	May 23-24	HAZMAT 2018	Stratford on Avon
CANADA	Postponed	AMOP Tech. Seminar – Contamination & Response	Vancouver BC
ITALY	June 20-22	INTERTANKO Annual Event 2018	Rome
USA	June 19-21	Clean Pacific Conference and Exhibition	Portland, OR
UK	June 25-28	Int'l Harbourmasters Assoc. Congress & Exhibition	London
INDIA	July 5-6	Oil Spill India 2018 Conference & Exhibition	New Delhi
SWEDEN	August 27-30	HELCOM BALEX DELTA 2018 spill recovery ex'cise	Karlskrona Area
UK	Sept. 12-13	Contamination Expo	Birmingham
SINGAPORE	Sept. 25-26	Salvage & Wreck Asia	Singapore
UAE	October 2-4	EI Middle East HSE Forum	Dubai
AUSTRALIA	October 2-4	Ecoforum Conference & Exhibition	Sydney
UAE	October 9-10	RECSO EnviroSpill Conference & Exhibition	Abu Dhabi
UK	October 22-26	IMO Marine Environment Protection Committee	London
USA	Nov. 13-15	Clean Gulf Conference and Exhibition	New Orleans, LA
To request posting of an event of interest to the Spill Response Community please send details to the Editor			

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