



ISCO NEWSLETTER

The Newsletter of the International Spill Response Community

Issue 600 28 August 2017

info@spillcontrol.org

<http://www.spillcontrol.org>



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

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27 & 28
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ISCO NEWSLETTER REACHES A MILESTONE WITH ISSUE 600

This issue of the ISCO Newsletter is No. 600 of the publication which was launched on 11th July 2005. Initially conceived as a two-page bulletin with only a very small number of selected news items, the idea that ISCO should produce a newsletter was first proposed by ISCO's President, David Usher. Initially, there were only about 200 readers.

As worldwide ISCO membership grew the need for a wider geographical news coverage became necessary. Today the mailing list is nearly 3,000 and the newsletter goes out to subscribers in more than 60 countries.

Another development has been the inclusion of educational content and, over the years, many eminent writers have shared their knowledge and experience, contributing excellent technical articles. This helps ISCO to fulfil one of its key objectives – "To disseminate information on the prevention, mitigation and remediation of oil and hazardous materials spills into the environment".

The ISCO newsletter owes a debt of gratitude to members who through their membership fees help to ensure its continued publication, and to all who have contributed articles and news from their own parts of the world.

The newsletter aims to be an invaluable source of information and news to the spill response community. The publication has significantly evolved over the last 12 years. Your editor is grateful to those readers who have helped this process by suggesting improvements and to many others who have written to say how useful they find it in their daily work.

WATCH VIDEO OF CHEMICAL SPILL EXERCISE 2017 (ICOPCE 2017)

August 18 - Held during the 10th edition of the International Chemical and Oil Pollution and Exhibition (ICOPCE), the Chemical Spill Exercise involved 150 personnel across 25 agencies, including the Singapore Civil Defence Force, Singapore Police Force, Agri-Food and Veterinary Authority, and Civil Aviation Authority of Singapore.

It simulated a collision between a fully-laden chemical tanker and a

PROFESSIONAL MEMBERSHIP

Advance your career by gaining Professional Recognition

Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment.

All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO.

The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications.

You can apply for Student Membership, Associate Membership (AMISCO), MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

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International news (continued)

bunker barge, in which 600 tonnes of cyclohexane was spilt, and two crew members had to be rescued. *Hellenic Shipping News*
[Watch the video](#)

GULF OIL INDUSTRY PREPARES FOR HURRICANE HARVEY

August 25 - Hurricane Harvey is approaching the Texas coastline, with Category 4 wind speeds exceeding 110 knots and wave heights of 22-28 feet in near-coastal waters. According to data compiled by the Bureau of Safety and Environmental Enforcement (BSEE), offshore operators have evacuated hundreds of workers and shut in about one fifth of the Gulf's oil and gas production in anticipation of severe storm conditions. 86 platforms and four moored rigs have been evacuated, and one DP rig has been relocated as a precaution. *The Maritime Executive* [Read more](#)

INTERSPILL CALL FOR PAPERS & POSTERS - DUE 30 SEPTEMBER 2017

The Interspill 2018 Conference will be the forum to showcase 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 and adding true value to those investing in it. The Interspill Committee is inviting you to submit proposals for technical presentations and posters for the 2018 Conference Streams. [Download the preliminary programme and call for papers information](#)

Incident reports

NIGERIA: OIL SPILLAGE HITS 10 EDO COMMUNITIES

August 14 - ENVIRONMENTAL disaster is looming in 10 communities of Etsako Local Government Area of Edo State over spillage of crude oil from the PPMC pipelines that are under repairs, which link Warri to Kaduna State. The spillage is already causing hardships in the affected communities as a result of the damage to aquatic life, rice farmland and plantations. *niyitabiti.net* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: FISHING VESSEL SINKS, SPILLING FUEL INTO MASSACHUSETTS HARBOR

August 16 - Coast Guard crews oversaw a fuel spill cleanup in New Bedford Harbor on Wednesday after a fishing vessel sank at the pier off Hervey Tichon Avenue. The captain from the tugboat Realist called Coast Guard Sector Southeastern watchstanders around 3:50 a.m. reporting the 62-foot fishing vessel Challenge carrying 7,000 gallons of fuel sunk at the pier and was actively discharging fuel. *Nh1.com* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

SOUTH AFRICA: MASSIVE DIESEL SPILL CLEAN-UP UNDER WAY, THREATENS RIVER

August 16 - It's anticipated that clean-up operations, following a diesel spill of 42 000 litres on the Meiringspoort Pass near De Rust in the Little Karoo, most of which flowed into the Grootrivier mountain stream, will take two weeks. *IOL* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

UK: DIESEL SPILL COULD HAVE POLLUTED THE LAKE AT CLUMBER PARK

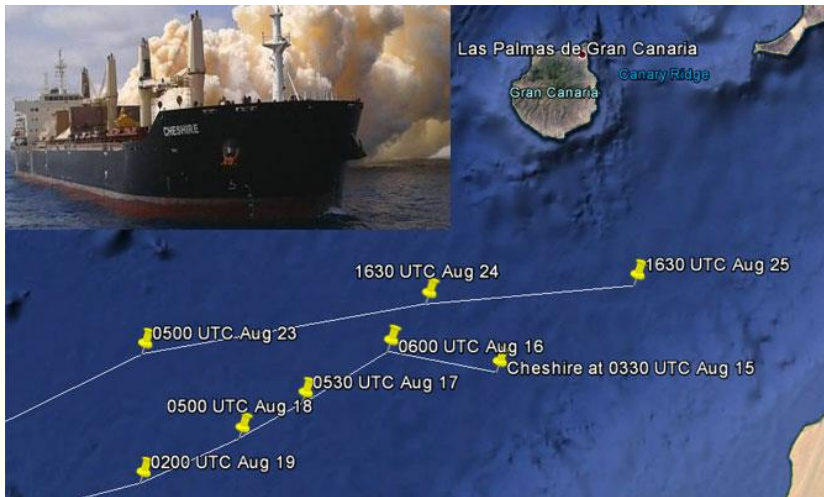
August 17 - A diesel spill in a Nottinghamshire river threatened to pollute one of the county's most iconic outdoors spots. A suspected leak from an oil tank near the River Poulter has led to a significant amount of diesel entering the river. *Nottingham Post* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

Incident reports (continued)

MALAYSIA: TWO VESSELS COLLIDE NEAR JOHOR, CAUSING OIL SPILL

August 18 - Two foreign-registered merchant vessels have collided 32 nautical miles off Tompok Utara near Pengerang in Johor, causing an oil spill. The authorities are determining the extent of the oil spill, which he said was likely flowing northward towards Pulau Tioman. *Straits Times* [Read more](#) Other reports in - [Maritime Bulletin](#) and [Malaysia Kini](#)

CANARY ISLANDS: BRITISH BURNING BULK CARRIER NEAR CANARY ISLANDS “IS A GIGANTIC FLOATING BOMB”



August 19 - The latest report we can find on British bulk cargo carrier The Cheshire, was from at 0200 UTC on Saturday Aug 19, which sites the stricken ship as drifting in the vicinity 26 10N 01758W, some 95 nautical miles south of El Hierro Island, the westernmost in the Canary Islands archipelago.

A salvage tug, the Red Sea Fos hired by ocean emergency salvage and rescue specialists Resolve Marine, is escorting the vessel at an unspecified distance assisted by the Spanish Marine Search and Rescue (SAR) tug the Miguel De Servantes, two more tugs have been sent to assist, namely the offshore supply vessel the VB Hispania and the Moroccan-flagged port tug Jacques 2.

“CHESHIRE in fact, is a floating bomb, loaded with more than 42,000 tons of Ammonium Nitrate. Risk of explosion, most likely,” says marine tracking website Fleetmon.com who go on to say that this “is the main reason salvors can’t even pour water or foam on [the] bulk carrier,” even “using water cannons, from a distance which is considered, generally, safe.” Not in this situation. As one of experts deployed in operation said, “we haven’t faced anything like this before”. *The Canary News* [Read more](#)

August 20 - Bulk carrier CHESHIRE fire 20 Aug Update: largest non-nuclear bomb afloat? [Maritime Bulletin](#)

August 23 - Salvage Tug Takes M/V Cheshire in Tow [The Maritime Executive](#)

August 24 - Bulk carrier CHESHIRE and public safety management [Maritime Bulletin](#)

August 25 - How dangerous is the cargo in CHESHIRE holds? [Maritime Bulletin](#)

SINGAPORE: OIL TANKER HIT BY USS JOHN S MCCAIN LADEN WITH FUEL OIL; NO SPILL

August 21 - An oil tanker involved in a collision with the USS John S McCain to the east of Singapore early on Monday (Aug 21) was carrying almost 12,000 tonnes of fuel oil, but there was no oil spill, a crew member told Reuters via phone. *Channel News Asia* [Read more](#)

KUWAIT: KUWAIT SAYS OIL SPILLS CONTAINED

August 22 - Kuwait’s state oil company said on Tuesday that an oil spill off the country’s coast had been contained and that it was in contact with oil companies operating in the Gulf region to try to locate the source of the leak, state news agency KUNA said.

Kuwait Petroleum Corporation said large amounts of the leaked oil had been removed and the rest contained during around-the-clock emergency operations that include air and sea monitoring. At least two spillages have hit different areas off the coast of the Gulf Arab state since last week. *Reuters* [Read more](#) Related report in [ABC News](#)

CHINA, HONG KONG - TYPHOON HATO TAKES TOLL ON SHIPS IN HONG KONG WATERS PHOTOS

August 23 - At least 4 vessels troubled, tanker broke in two, at least two other ships were pushed aground. See photos. [Maritime Bulletin](#)

August 24 - On August 23, Typhoon Hato landed near Hong Kong, China. Authorities issued a typhoon 10 warning due to the storm’s sustained winds of 78 miles per hour and gusts reaching over 129 miles per hour. Reports state that four vessels requested assistance that were in Hong Kong or the Pearl River estuary. Reports state three vessels had run ashore, one had capsized and another broke-in-two releasing pollution into the water. [Shipwreck Log](#)

Incident reports (continued)

August 24 - An oil spill has been reported in the Pearl River estuary close to the Qingzhou Island and Guishan Island after a few vessels were either stranded or sank last night in the wake of typhoon Hato. [The Standard](#)

VIETNAMESE FREIGHTER SANK OFF BEACH, POLLUTION ALERT

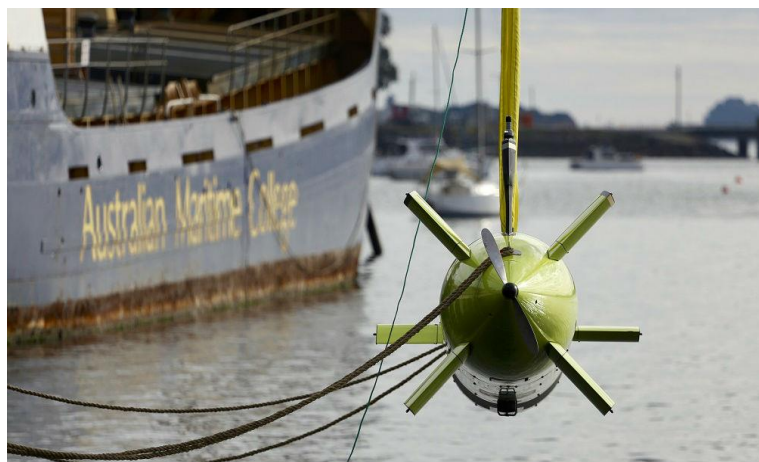
August 24 - General cargo vessel VIET HAI 06 with 3004 tons of steel coil at 1440 ITC (Indochina Time Zone) Aug 23 reported fuel tank rupture and water ingress into engine room, danger of sinking, 3 nm off Ninh Chu coast, Ninh Thuan Province, north of Vung Tau, Vietnam. *Maritime Bulletin* [Read more](#)

USA: HURRICANE HARVEY'S WALLOP ON U.S. OIL REFINERS IS JUST BEGINNING

August 26 - Refiners from Corpus Christi, Texas, to Louisiana were working furiously to prepare for Hurricane Harvey which is packing winds of up to 130 miles per hour, and threatening "unprecedented" flooding, according to forecasters. *Reuters* [Read more and watch video](#)

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

AUSTRALIA GETS NEW UNDER-ICE AUV



The University of Tasmania's Australia Maritime College (AMC) has named its new autonomous underwater vehicle (AUV), capable of diving up to 5,000 metres, operating underneath the ice and gathering data on Antarctic research missions.

During an official ceremony, the A\$5 million (\$4 million) polar vehicle was granted the name nupiri muka, which means "Eye of the Sea" in palawa kani, the language of Tasmanian Aborigines.

At nearly seven metres long and weighing one-and-a-half tons, nupiri muka's endurance enables it to travel more than 140 kilometers or 24 hours without needing to be recharged. It's also highly customisable and can host a range of instruments. *The Maritime Executive* [Read more](#)

CANADA: LEAKY PIPELINE NEAR MONTREAL STILL MOVING OIL DESPITE WARNINGS FROM REGULATOR

August 14 - Sylvie Rozon and Guy Coderre had just finished preparing a report on the threat of oil contamination in the Montreal region's drinking water when they decided to investigate a potential risk. It turned out to be serious.

They went to visit land owned by Rozon's parents to look into how pipeline companies were taking care of their infrastructure. Rozon's parents had bought the land, in Saint-Lazare, a town about 50 kilometres west of Montreal, in the 1990s. They only realized later that the land was on the path of the Trans-Northern pipeline, an aging and leaky line that has been carrying oil between the Montreal region and southern Ontario since 1952.

It was June of 2016, and as they walked in a wooded area they found that part of the pipeline was sticking out.

The exposed pipeline was in a ditch, suspended above a stream about four kilometres away from the Ottawa River, which is a source of Montreal's drinking water.



News reports from around the world (continued)

Rozon called Trans-Northern Pipeline Inc. to warn them about what they found. At first, an operator told them there was nothing unusual going on. But she pressed the company to investigate, she said. Half an hour later, Jean-François Bissonnette, a supervisor at the company, called back to say it was not normal for the pipeline to be exposed, but that it wasn't dangerous. He said someone would come to inspect it.

"Mr. Bissonnette called me back to say he would come in the coming days to see this but that there were no dangers.

But even if I kept saying it was not normal—there's a water stream almost below—he said I was worried for nothing," said Rozon.

They also contacted the city of Saint-Lazare as well as people from Citoyens Au Courant, an organization that advocates for pipeline safety and opposes dangerous projects. They also called journalists from TVA and Radio-Canada, Quebec's two largest news broadcasters. "After TVA and Radio-Canada came and the story made headlines, it's clear that at Trans-Northern they hurried up with a team to carry sacks of rocks, walking over maybe half a kilometre. They covered the pipeline with a rubber carpet of about two centimetres and put rocks on top of it."

But Rozon said the stream of water swept away the rocks over the summer, leaving the pipeline covered only by a rubber carpet for the entire winter. In the spring, the pipeline company came back to put more rocks over the pipeline, this time with a bulldozer. But after a few weeks, the water stream again pushed the rocks a few meters away, she said.

A year after her discovery, there is still no permanent solution for safeguarding the pipeline, Rozon said, and this concerns her.

The company said in an email they are in the process of securing permits from multiple local and provincial authorities such as the Environment Department and the Commission de Protection du Territoire Agricole (CPTAQ) to complete the permanent repair work. They added that municipalities, including the city of Saint-Lazare, have to review their application before sending it themselves to the commission, which will then examine their request.

"In the meantime, consistent with our commitment to ensure the safety of the community and to protect the pipeline, we visit the site regularly, including after significant rain falls, to visually inspect the area and ensure the site and the pipeline are safe," said Trans-Northern, in its email.

The mayor of Saint-Lazare, Robert Grimaudo, confirmed he was in touch with Gail Sharko, manager of Trans-Northern's regulatory and external affairs, and said the pipeline company was easy to work with and very cooperative. "The reality is that it's the Quebec (government departments) that are causing all the delays," he said. "Before a pipeline company can do the work, because there's a stream right nearby, they need authorization from the ministry of the environment, the ministry of public security and so on and so forth, which of course, they haven't (released) yet. The problem is the pipeline company is ready to go." The mayor warns that the situation shouldn't be "blown out of proportion. There is no leak, there is no danger, there is no problem," he said.

But Rozon, Coderre and the members of Citoyens au Courant disagree. "If the pipe breaks, the water stream, which is right under, is four kilometres away from the Ottawa River," said Rozon, who fears millions of litres of oil could be spilled before it's noticed or stopped. "Since the land is made of clay, there could be a landslide, if a tree falls straight onto the pipe and breaks it, how long is it going to take for (someone from the company or residents) to see it? And the first valve to isolate the pipe when, say, they'll know there's a leak, is 40 kilometres away." *National Observer*
[Read more](#)

CANADA: ENERGY IS: POTENTIAL OIL SPILLS WILL BE STUDIED

August 24 - The national energy Board (NEB) announced, Wednesday, that the hearing panel of the projects, Energy and Network main Is will explore the issue of possible oil spills.

The Office, which was unveiled Wednesday, the list of topics that will be scrutinized during the evaluation of the two pipeline projects for TransCanada, said in press release that "the public is interested in better understanding the risks associated with accidents or potential failures in the network that can, for example, lead to an oil spill in the environment." The project review will therefore focus in large part on these issues. *The Silver Times* [Read more](#)

CHINA: PALM OIL THAT SPILLED ONTO HONG KONG'S BEACHES TURNED INTO CRUDE GASOLINE

August 17 - One hundred tons of palm oil – about the same weight as a blue whale and half the total amount that spilled in collision between two ships – will be turned into biodiesel and then crude gasoline for sale next week.

Half of the palm oil washed ashore on beaches two weeks ago will be turned into 50 tons of crude gasoline to go on sale next week, according to a biodiesel company. *South China Morning Post* [Read more](#)

News reports from around the world (continued)

NIGERIA: HOW TO GET US OUT OF ILLEGAL OIL REFINING, BY Ogoni YOUTHS

August 18 - The hall was filled with Ogoni artisanal oil refiners popularly called “kpor-fire”. Minister of State for Environment Alhaji Ibrahim Usman Jibrin and his team were their guests. The meeting was hosted by Project Coordinator, Hydrocarbon Pollution Remediation Project (HYPREP) Dr. Marvin Dekil.

At the meeting, which started by 7: 30 pm, the artisanal refiners openly informed the Federal Government that they would not leave illegal refining except they see commitment on the side of the government to empower them.

They disclosed that after some of them were delisted from pipelines surveillance by government agencies, illegal refining became the only source to earn a living, adding that it was from the illegal business that they cater for their families.

The artisanal refiners in Ogoni who were led by Mr. Elvis Ikoma and Domka Humphrey told Jibrin who represented the Federal Government on the consultative meeting that they can only leave illegal refining when federal government shows commitment on their livelihood.

Though, they also told the minister that if they were not committed to support Ogoni cleanup none of them would honour his invitation, stressing that some of them have already left the illegal refining after Dekil approached them to stop. *The Nation* [Read more](#)

NIGERIA: ENVIRONMENT FIRMS BEGIN REMEDIATION WORK ON Ogoni CLEANUP



An environmental firm has commenced preliminary remediation work on Ogoni cleanup.

The project coordinator, Mr. Marvin Dekil disclosed this yesterday in Korokoro while monitoring the company's readiness. He explained that two firms, Vitruvian Global Resources and DLK Oil and Gas Environmental Resource have resumed work at the polluted sites.

The coordinator stressed that the project was part of the recommendations by the United Nations Environment Programme (UNEP). He had invited the companies to showcase their technology at Korokoro in Tai Local Council Area of Rivers State. Dekil, who was represented by the Director of Communications, Mr. Isa Wasa disclosed that the Federal Government was committed to the cleanup.

He said: “We are here for the monitoring. The two firms at no cost, showcased their technology in readiness for the project and their demonstration would assure the people about the readiness for the project.” *Guardian Nigeria* [Read more](#)

News reports from around the world (continued)

UK: MARITIME & COASTGUARD AGENCY APPOINTS NEW SOSREP



August 22 - The Maritime & Coastguard Agency has made a new appointment to the vital role of Secretary of State's Representative (SOSRep) Maritime Salvage & Intervention, which oversees the response to accidents at sea.

Les Chapman has been appointed to the role and will join the Agency on Monday 21 August. He will work alongside the existing SOSRep Hugh Shaw OBE for several months, to allow a substantial transition period in this important role, and will not assume the role and responsibilities of the SOSRep until an agreed time later on in the year.

The SOSRep is responsible for reducing the risk to safety and the environment arising from accidents at sea. Recent incidents which were overseen by the current SOSRep Hugh Shaw include the Transocean Winner rig grounding off the Isle of Lewis in 2016 and the Hoegh Osaka car carrier incident in the Solent in 2015.

Mr Chapman is no stranger to the maritime world, having graduated from the Royal Military College of Canada and served in both the UK's Royal Navy and the Royal Canadian Navy – as part of the former, he qualified for nuclear submarine command and held four command appointments. Over the course of a career spanning the maritime, security and transportation industries, Les has also worked with a number of commercial maritime organisations including Associated British Ports Ltd, DNV and The Maritime Group. He is a Fellow of the Institute of Marine Engineering, Science and Technology, the Institute of Civil Protection and Emergency Management and the Nautical Institute, a Liveryman of the Honourable Company of Master Mariners, The Worshipful Company of Arbitrators, The Worshipful Company of Shipwrights and a Younger Brother of Trinity House. *BYM Marine & Maritime Defence News* [Read more](#) [Thanks to ISCO Secretary, Matthew Sommerville]

USA: EVALUATION OF THE USE OF CHEMICAL DISPERSANTS IN OIL POLLUTION RESPONSE

August 18 - On August 7 - 8, the National Academies of Sciences, Engineering, and Medicine – Committee on Evaluation of the Use of Chemical Dispersants in Oil Spill Response – sponsored an open meeting in Washington, D.C. to gather information on modeling the fate and transport of oil and dispersed oil during oil spills. *OR&R Weekly Report* [Read more](#)

USA: US SENATE COMMITTEE REJECTS MOST OF TRUMP'S PROPOSED CUTS TO NOAA

August 17 - The U.S. Senate Appropriations Committee has voted to reduce NOAA's 2018 budget, but the cuts are less severe than those requested by President Donald Trump.

The Senate Commerce, Justice and Science appropriations subcommittee agreed to a \$85.1 million cut to NOAA's budget to \$5.6 billion — much less than the nearly \$900 million in cuts requested by Trump, according to a press release put out by Senate Republicans. *National Fisherman* [Read more](#)

USA: WASHINGTON - PORT ANGELES HOSTS OIL SPILL TRAINING

August 20 - Students from the U.S. Coast Guard, state and federal agencies, and private industries took to the waters around Port Angeles last week to learn how to respond to an oil spill.

The 40-some students got a hands-on look at how to use oil booms to skim oil along the coast, in the Elwha River and in open water Wednesday and Thursday after spending two days in a classroom setting. On Friday, they debriefed, said Lt. Holly Bergman of the USCG. *Peninsula Daily News* [Read more](#)

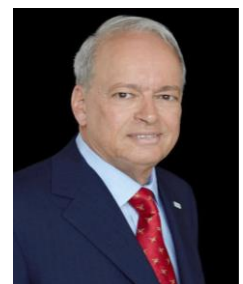
People in the news

NAMEPA HONORS FOUNDING CHAIRMAN CLAY MAITLAND

August 21 - Clay Maitland is to receive the North American Marine Environment Protection Association (NAMEPA) Lifetime Achievement Award.

Maitland is being recognized for his many industry accomplishments including being the co-founder of NAMEPA, with Carleen Lyden Walker, 10 years ago.

“Clay is one of the finest examples in our industry of a successful businessman who expends nearly as much energy on philanthropy,” observed Chairman Joe Hughes. “It is fitting that he be recognized, especially with NAMEPA celebrating its 10th anniversary.”



OIL SPILLS: INLAND RESPONSE GOOD PRACTICE GUIDELINES FOR INCIDENT MANAGEMENT AND EMERGENCY RESPONSE PERSONNEL

Part 10 of a new serialised article contributed by IPIECA and IOGP



Response techniques (continued)

Shoreline Clean-up / Treatment (continued)

Surface washing or shore cleaning agents

Shore cleaning agents are products which increase the ease or efficiency of oil removal when flushed with water. The oil is washed, or mobilized, off a hard surface, corralled by booms and collected by skimmers or sorbents. These products are designed to be used on very heavy oils on hard substrates that cannot be cleaned by water flushing alone, and their use is not an initial response technique. They do not work well on porous habitats like sand shores and marshes.

Below Left: Oiled riprap with sorbent boom at water's edge.

Below Right: Spraying shoreline cleaner.



Below Left: Flushing oiled riprap after soak time.

Below Right: Cleaned riprap



Contributed article

There is a long history of their use by local responders, such as fire departments, for removing oil quickly from roads and other hard surfaces. Their priority is to quickly reopen paved areas for safe public use. However, care should also be taken to constrain the further spread of mobilized or dispersed oil.

The best products are those that have low aquatic toxicity while remaining effective. They often require soak time to interact well with the oil before being flushed with water. As a result, they cannot be successfully used if waves or rain are present because the water will wash the product off the oiled surface before it has time to interact with, and mobilize, the oil.

Biodegradation

Although not a technique for spill response to limit the spread of oil and recover it, subsequent longer-term clean-up activities may include bioremediation tasks. Microbes that degrade oil exist everywhere and need adequate oxygen and nutrients, primarily nitrogen and phosphorus, to promote their growth. In quiescent inland waters with limited flow, such as some wetlands, swamps, and ponds and lakes, a major influx of hydrocarbons can be overwhelming to microbes, and oxygen and nutrients may become limiting. Microbial degradation of spilled hydrocarbons is easier and faster if oil components are soluble in water. However, this is atypical since most oil components are not very soluble in water, or may be insoluble. The more soluble components are the lighter-weight compounds found in refined products, very light crude oils and ethanol fuels.

If soluble components (e.g. refined products) are available to microbes in large quantities, their rapid growth could deplete the dissolved oxygen supply in smaller water bodies and cause hypoxia, slowing down their growth and affecting other aquatic species. Extreme reductions in dissolved oxygen can lead to fish deaths. Studies have shown that the addition of fertilizers accelerates the rate of degradation if nutrients are lacking; however, this can also lead to eutrophication, thereby increasing the potential for hypoxia.

Biodegradation is not a new response technology. It occurs naturally, regardless of whether it is enhanced by the addition of nutrients. The rate of biodegradation depends on four key factors: nutrients; oxygen; ambient temperatures; and the local degree of oiling. Light oiling can be degraded within weeks or a growing season. Because it may take months to degrade thick layers of stranded oil, this is not regarded as a response technique, but rather a process that can be relied upon after the majority of the oil has been removed by other clean-up techniques.

It can be a challenge to reach agreement on the end points of clean-up activities, as stakeholders may have the initial perception that removing all oil through clean-up activities is required and appropriate. However, the ability for the natural process of biodegradation to break down the majority of oil compounds is an important consideration in the framework of NEBA and should be factored into the analysis alongside the potential harm of other clean-up operations.

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To be continued next week

Events

CANADA: 40TH AMOP TECHNICAL SEMINAR ON ENVIRONMENTAL CONTAMINATION AND RESPONSE

October 3-5, 2017, Calgary, Alberta, Canada - Seminar Information (including accommodations) <https://www.ec.gc.ca/amop/default.asp?lang=En&n=F3E02E00-1>

Registration Form <https://www.ec.gc.ca/amop/default.asp?lang=En&n=3CF0F373-1>

Program: Due to scheduled web site maintenance activities, we will be unable to post the final program. Instead, the final program will be emailed to seminar participants when it is available at the end of August.

Other interested parties can request a copy by emailing ec.colloquetechniqueamop-amoptechnicalseminar.ec@canada.ca

More info: <https://www.ec.gc.ca/amop/default.asp?lang=En&n=716D23D0-1>

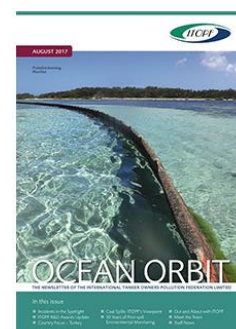
Upcoming events summary

COUNTRY	2017	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
SINGAPORE	Sept. 4-6	Salvage & Wreck Asia	Singapore
NIGERIA	Sept. 5-7	National Workshop on Liability and Compensation	Abuja (TBC)
UK	Sept. 5-8	SPE Offshore Europe	Aberdeen
UK	Sept. 6-7	8th Maritime and Salvage Response	London
FRANCE	Sept. 12-14	Cedre Mariner Project Workshop	Brest
GABON	Sept. 19-22	National workshop on waste management	Libreville
UK	Sept. 20-21	The Emergency Services Show	Birmingham
NORWAY	Sept. 25-29	International Oil Spill Exercise SCOPE 2017	Grenland Area
UK	Sept. 26-28	Industry Technical Advisory Committee (ITAC) Mtg.	Plymouth
EQUATORIAL GUINEA	Sept. 26-29	National Workshop on Contingency Planning	Malabo
UK	Sept. 27-28	Contamination Expo Series 2017	London
FRANCE	Sept. 28	CEDRE Information Day – “Spills in Ports”	Paris
USA	Oct. 2-4	Elastec Inland Spill Workshop (Focus on Rivers)	Carmi, IL
CANADA	Oct. 3-5	40th AMOP Technical Seminar	Calgary
TUNISIA	Oct. 10-11	Oiled Shoreline Clean-up W'shop & Tier1 Exercise	Sfax City
NORWAY	Oct. 17-19	NOSCA Seminar 2017	Horten
CANADA	Oct.30-Nov.1	Arctic Shipping North America Forum	Montreal
UK	Oct.30-Nov.2	IOPC Funds Meetings	London
UK	Nov. 1-2	Offshore Decommissioning & Operations Seminar	London
CHINA	Nov. 1-3	Oceanology International China	Qingdao
IVORY COAST	Nov. 6-9	GI WACAF Regional Conference	Abidjan
UK	Nov. 11	UK Spill Spill Seminar	Southampton
UAE	Nov. 13-16	Abu Dhabi Int'l Petroleum Exhibition & Conference	Abu Dhabi
AZERBAIJAN	Nov. 20-22	Oil Spill Control Caspian – Onshore & Offshore	Baku
UK	Nov. 29-30	11th Arctic Shipping Summit	London
USA	Dec. 5-7	Clean Gulf Conference and Exhibition	Houston, TX
2018			
UAE	Feb 28 – Mar 1	Offshore Arabia Conference & Exhibition	Dubai
UK	March 13-15	2018 INTERSPILL Conference and Exhibition	London
UK	March 13-15	Oceanology International 2018	London
USA	April 4-5	Clean Waterways Conference	St. Louis, MO
FINLAND	April 17-20	Arctic Shipping Forum	Helsinki
UK	May 23-24	HAZMAT 2018	Stratford on Avon
USA	June 19-21	Clean Pacific Conference and Exhibition	Portland, OR
INDIA	July 5-6	Oil Spill India 2018 Conference & Exhibition	New Delhi
To request posting of an event of interest to the Spill Response Community please send details to the Editor			

Publications

ITOPF: NEW EDITION OF OCEAN ORBIT JUST PUBLISHED

ITOPF has just published its annual newsletter for 2017. Alongside the regular round-up of spills, ITOPF activities and staff news, this year's issue features a technical article on coal spills and a report on spill preparedness and response in Turkey. Ocean Orbit is freely available to download from [ITOPF's website](#).



Publications (continued)

CURRENT AND EMERGING POST-FUKUSHIMA TECHNOLOGIES, AND TECHNIQUES, AND PRACTICES FOR WIDE AREA RADIOLOGICAL SURVEY, REMEDIATION, AND WASTE MANAGEMENT

U.S. EPA, Office of Research and Development, National Homeland Security Research Center.
EPA 600-R-16-140, 69 pp, 2016

The potential of the technologies and techniques presented in this report are discussed in the event their deployment is required in response to a wide-area contamination event in the United States. In some cases, additional research and testing is needed for adequate validation of the effectiveness of the technology over wide areas. Survey techniques can be deployed on the ground or from the air, allowing a range of coverage rates and sensitivities. Survey technologies also include those useful in measuring decontamination progress and mapping contamination. Decontamination technologies and techniques range from non-destructive (e.g., high pressure washing) and minimally destructive (plowing) to fully destructive (surface removal or demolition). Waste minimization techniques can greatly affect the long-term environmental consequences and cost of remediation efforts. Recommendations on technical improvements to address technology gaps are presented together with observations on remediation in Japan. <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockkey=P100RBHA.txt>

Thanks to Technology Innovation News Survey. Read more at <http://www.clu-in.org/products/tins/>

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

AMSA Aboard	News from the Australian Maritime Safety Authority	December 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	June 2017
CROIERG Enews	Canberra & Regions Oil Industry Emergency Response Group	Current issue
EMSA Newsletter	News from the European Maritime Safety Agency	August 2017 issue
Environmental Technology Online	Environmental Monitoring, Testing & Analysis	August 2017 issue
IMO News Magazine	News from the International Maritime Organization	Summer 2017 issue
IMO Publishing News	New and forthcoming IMO publications	July 2017
Intertanko Weekly News	International news for the oil tanker community	August 25, 2017
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	Q3 2017 issue
Maritime Executive Magazine	Often contains articles of interest to the spill response community	May-June 2017
MOIG Newsletter	News from the Mediterranean Oil Industry Group	July 2017 issue
NOWPAP Quarterly	News from the North West Pacific Action Plan	Quarter 1, 2017 issue
Ocean Orbit	Newsletter from the International Tanker Owners Pollution Federation	August 2017
OCIMF Newsletter	News from the Oil Companies International Marine Forum	July 2017 issue
Pollution Online Newsletter	News for prevention & control professionals	August 23, 2017
Safe Seas, Clean Seas	Quarterly Newsletter from Maritime New Zealand	December 2016 issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Spring 2017 issue
Technology Innovation News Survey	News from US EPA – Contaminated Site Decontamination	July 1-15, 2017
Transport Canada Newsletter	News and articles re transport of dangerous goods in Canada	December 2016 issue
UK NCEC	News from the National Chemical Emergency Centre	July 2017 issue
USA EPA Tech Direct	Remediation of contaminated soil and groundwater	August 1, 2017
USA EPA Tech News & Trends	Contaminated site clean-up information	Spring 2016 issue
WMU Newsletter	News from the World Maritime University	December 2016

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

Training

USA: SCIENCE OF OIL SPILLS TRAINING: APPLY FOR FALL 2017

NOAA is accepting applications for its next Science of Oil Spills class until Friday, Sept. 8, 2017. The class will run the week of Nov. 13, 2017 in Anchorage, Alaska.

[More information](#)

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