

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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ISCO is managed by an elected executive committee members of which are **Mr David Usher** (President, USA), **Mr John McMurtrie** (Secretary, UK), **Mr Marc Shaye** (USA), **Mr Dan Sheehan** (USA), **M. Jean Claude Sainlos** (France), **Mr Kerem Kemerli** (Turkey), **Mr Simon Rickaby** (UK), **Mr Li Guobin** (China), **Captain Bill Boyle** (UK) and **Mr Dennis van der Veen** (The Netherlands).

The Register of ISCO Members is maintained by **Ms Mary Ann Dalgleish** (Membership Director). She is also responsible for collecting membership dues.

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KITACK LIM SEES IMO STRENGTHENING PARTNERSHIPS



Kitack Lim was elected Secretary-General of the Organization by the 114th session of the IMO Council in June 2015 for a four-year period beginning 1 January 2016. The election was endorsed by the IMO's Assembly at its 29th session in November 2015.

Mr. Kitack Lim (Republic of Korea) is the eighth elected Secretary-General of the IMO.

A message from IMO Secretary-General Kitack Lim

"It is a great honour to have been elected as Secretary-General of this prestigious and important Organization, and as I begin my term I very much look forward to the challenges ahead.

I join an august group of people who have been chosen to lead this organization and I would like to pay tribute to them all – in particular my immediate predecessor, Mr. Koji Sekimizu, whose enthusiasm and devotion to meeting the Organization's goals has brought such positive and beneficial results.

IMO currently faces an array of issues. With the collective wisdom and insight of IMO Member States and other stakeholders, I am confident we can meet these challenges and continue to forge a future where shipping meets the needs of the world in a safe, secure and sustainable way, building on the substantial efforts and achievements of the IMO to date.

My vision is one of strengthened partnerships – between developing and developed countries, between governments and industry, between IMO Member States and regions. I will also endeavour to strengthen communication between the maritime industry and the general public, I see IMO acting as a bridge between all these stakeholders in what I have referred to as "a voyage together".

For my part, I plan to concentrate on several overarching objectives:

- effective implementation of international conventions and regulations

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Although [essentially forbidden by the Geneva Conventions](#), attacks on industrial infrastructure, including oil facilities, have been commonplace in armed conflict. Retreating Iraqi forces set close to [700 Kuwaiti oil wells](#) on fire during the 1991 Gulf War. NATO forces [targeted oil refineries and oil depots](#) in Pančevo and the [Novi Sad oil refinery](#) in Serbia during the Balkans war in 1999. Israel struck storage tanks for a thermal power station in [Lebanon](#) in 2006, and Russian forces have bombed oil wells in [Chechnya](#).

In many cases, military strikes caused air and soil contamination that added to existing legacies of pollution, making the post-conflict road to recovery and stability even longer. *New Security Beat* [Read more](#) [Watch video](#) [Thanks to Walter Putman, Marine Pollution Control]

EXXON VALDEZ: AN END TO LEGAL PROCEEDINGS

26 years on from the grounding of the single hulled oil tanker Exxon Valdez in Prince William Sound (Alaska), the US authorities announced on 15th October 2015 that they were ending judicial action against Exxon.

This legal epic, with its twists and appeals, comprised a "reopener" consisting in an additional \$100 million pledge as part of the 1991 settlement in case of loss or decline of the flora and fauna which could not be known or anticipated at the time of the spill. Scientists have recently concluded that the flora and fauna have recovered to pre-spill levels. This return to normal thus brings this legal case to a close. Source; [CEDRE Newsletter](#)

Incident reports from around the world (listed in chronological order)

CANADA: NEWFOUNDLAND - PLACENTIA BAY OIL SPILL AFFECTING AREA AS CLEANUP CONTINUES

January 11 - North Atlantic Refining is continuing its efforts to clean up after 1500 litres of oil were spilled into Placentia Bay last week. The mayor of Arnold's Cove is confident that they're won't be any long-term effects from the oil leak in Placentia Bay last week. About ten barrels of an oily substance leaked into the bay within the municipality of Arnold's Cove, prompting the emergency response system to kick in. [VOCM.com](#) [Read more](#)

International news (continued)

- building capacity in developing countries, particularly small island developing States and least developed countries
- promoting IMO's global status
- contributing to shared growth for all Member States
- the efficient performance of the Secretariat.

As the servant of the Member States and on behalf of the Secretariat, I will work proactively to ensure that, through consensus and cooperation among its Member States, IMO continues to develop and deliver on its mission." [IMO](#)

OIL POLLUTION FROM THE PRESTIGE: VERDICT TO BE OVERTURNED?

On 29th September, the prosecutors called for the Spanish Supreme Court to overturn the verdict delivered on 13th November 2013 at the trial in La Coruña, relating to the Prestige, which caused the largest oil spill known to Spain in November 2002. The original verdict had given rise to widespread indignation in Spain, as the captain, chief engineer and head of the Merchant Navy were found not guilty of causing damage to the environment and protected natural areas.

The prosecutor's office of La Coruña and the French State decided to take the case to the Supreme Court in 2013 to appeal the acquittals. The reversal of this verdict recently called for by the prosecutors was based on the fact that in November 2013 the court did not take account of key documents such as a handwritten note from the captain clearly indicating the ship's poor condition.

The prosecutors were also seeking €4.3 million in compensation for environmental damages. We await the outcome of this legal saga which is to be delivered soon by the Supreme Court. Source: [CEDRE Newsletter](#)

FIRE AND OIL: THE COLLATERAL ENVIRONMENTAL DAMAGE OF AIRSTRIKES ON ISIS OIL FACILITIES

January 13 - As the United States, Russia, and others step up attacks on the self-proclaimed Islamic State in Iraq and Syria (ISIS), there is concern over their direct and long-term environmental and public health impacts. Many air strikes have targeted lucrative oil installations under the control of ISIS, and these could have severe detrimental effects for Syria's future, both environmentally and socio-economically. Questions around the effectiveness of these strikes, both from a military and political perspective, seem to be missing in the wider debate.

NIGERIA: DELTA COMMUNITY SENDS SOS TO OKOWA OVER OIL SPILL



January 12 - WARRI—OKPELEAMA community of Gbaramatu in Warri South- West Local Government Area of Delta State, yesterday, sent a save our souls, SOS, to the state governor, Dr. Ifeanyi Okowa and the Nigerian National Petroleum Corporation, NNPC, over an oil spill which they said had spread to its coasts. A statement by Yabrade Moses, Chairman of the community, said, “The spill had caused severe damage and disruption of fishing and farming activities which are our major sources of livelihood.” He said that the spill was first noticed recently emanating from the petroleum pipeline along Ikpokpo/Okpeleama Creek (parts of the 335.5 hectares of Ikpokpo/Okpele-Ama land already acquired for the EPZ/Deep Sea Port Project). *Vanguard* [Read more](#)

UK: FEARS RAISED AFTER OIL SPOTTED SEEPING FROM AGEING NORTH-EAST LANDFILL SITE INTO NORTH SEA

January 12 - The black liquid has been spotted along a mile-long stretch of coast between dunes at the small settlement close to the A90 and Blackdog Rock to the north.

The oil leak is believed to have been triggered by the torrential rain which caused flooding across the north-east.

The former landfill site at Blackdog is believed to have been used as a dumping spot between the 1930s and 1980s. Edna Booth, secretary of the local residents association, said the cause of the pollution was drilling mud poured into the landfill three decades ago and claimed there could be as much as “12,000 gallons” in the ground. *Aberdeen Press & Journal* [Read more](#)



USA: OIL SPILL COULD AFFECT DELAWARE RIVER

January 12 - An oil spill that was first noticed on Sunday, Jan. 10, in Warren County could affect the Delaware River.

According to the Musconetcong Watershed Association, a man fishing on the Musconetcong River in Mansfield on Sunday morning smelled the heating oil and discovered it was flowing from a tributary into the river, which is itself a tributary to the Delaware River, a source of drinking water throughout Central Jersey. The oil was leaking from a home-heating-oil storage facility on Heiser Road in the township. *MyCentralJersey.com* [Read more](#)

BRAZIL: HAZARDOUS CONTAINER BLAZE AT BRAZIL’S LARGEST PORT RESTRICTS SHIPPING



Photo: Fire rises from chemical containers from logistic company Localfrio in Guarujá, Brazil, January 14, 2016. REUTERS/Paulo Whitaker

January 14 - Up to a dozen containers carrying chemicals caught fire at a terminal at Brazil’s largest port of Santos on Thursday, restricting ship movement, representatives of the port authority Codesp said.

The fire at the container terminal operated by logistics company Localfrio in Guarujá, on the eastern side of Santos, started around 3 p.m. Brasilia time (1700 GMT) and continued into the evening, sending plumes of smoke across the shipping channel at the commodity exporting port.

The port authority said in a statement it had stopped ships from docking at a terminal operated by Santos Brasil next to Localfrio’s Alfandegado terminal because of smoke, but otherwise the port was operating normally. *gCaptain* [Read more](#)

BRAZIL: BRAZIL INDICTS SAMARCO, VALE FOR MASSIVE ENVIRONMENTAL DISASTER

January 14 - Brazil's federal police announced on Wednesday that mining companies Samarco and Vale, consulting company VogBR and seven Samarco's employees will be indicted for the collapse of two tailings dams last November, which caused casualties and colossal environmental damages.

Located in Mariana, Minas Gerais state, the two dams were owned by Samarco. Vale is one of Samarco's owners, while VogBR was the company responsible for a report assuring that the dams were stable and not at risk of collapse.

The seven indicted executives and technicians include Samarco's CEO Ricardo Vascovi. The others were directly involved with the operations of the collapsed dams. The indictees are being accused of harming human health, killing animals and undermining ecosystems through pollution. According to Brazil's Environmental Law, such crimes are punishable with huge fines and up to five years in prison.

The collapse occurred on Nov. 5, when the iron ore and sludge from the dams formed tons of toxic mud which destroyed an entire residential neighborhood in Mariana, leaving 17 people dead, two missing and hundreds of others homeless. *Shanghai Daily*
[Read more](#) [Thanks to Walter Putman, Marine Pollution Control]

CANADA: TRANS MOUNTAIN PIPELINE EXPANSION NOT SUPPORTED BY B.C. GOVERNMENT



January 13 - The B.C. government says it can't support the proposed \$6.8-billion expansion of the Trans Mountain pipeline from Alberta to Burnaby.

In a written brief to the National Energy Board, the B.C. government argues that the pipeline's proponent, Kinder Morgan, has not provided an adequate plan to prevent or respond to an oil spill.

"During the course of the NEB review, the company has not provided enough information around its proposed spill prevention and response for the province to determine if it would use a world-leading spills regime," a government statement said.

"Because of this the province is unable to support the project at this time, based on the evidence submitted." *CBC News*
[Read more](#) Related reports in [Desmog Canada](#) and in [North Shore News](#)

FRANCE: REPORT ON CEDRE ACTIVITIES

January 12 - December was a busy month for Cedre's emergency response team. Advice was requested from the DDTM for the Manche area after a tank of diesel fell onto a pontoon in the port of Granville, releasing several hundred litres of the substance.

During an NRBC (Nuclear, Radiological, Biological and Chemical) exercise, the Finistère fire brigade requested information on the behaviour of arsine in the aquatic environment. Having recorded a high level of PAHs in a water supply, a water distribution company based in Eastern France called upon our expertise to interpret the results of the tests carried out.

The local police for Talmont-Saint-Hilaire in the French department of Vendée requested the analysis of oil samples from a past spill, from which oil had been uncovered due to a receding dune.

A representative of the Lower Normandy Regional Health Board contacted our duty engineer to enquire about detection and analysis procedures for potential traces of slurry in a well, used for various purposes, liable to have been contaminated. Cedre was informed of printer ink cartridges having washed up on the southern shores of the department of Finistère.

The duty engineers were also involved in several exercises during December as part of the ICE and MAR-ICE networks, upon request by Norway and Finland. Cedre activated the ICE focal point for the Netherlands during an exercise. [CEDRE Newsletter](#)

Other news reports from around the world (continued)

FRANCE: MEETINGS OF CEDRE'S BOARD OF GOVERNORS AND GENERAL ASSEMBLY

January 12 - The meetings of Cedre's Board of Governors and General Assembly were held on 8th December in Paris upon invitation by Armateurs de France. During these meetings, the 2015 revised budget and the 2016 provisional budget were approved. The general assembly voted in its representatives on the Board of Governors and the board then elected members to key positions, re-electing François Cuillandre, President of Brest Métropole, as the association's President. The agenda also included a review of the currently ongoing process to appoint a new Director for Cedre in the spring. Finally, the main conclusions of the latest meeting of the Strategic Committee, with a particular focus on Cedre's medium term strategy and the funding of its activities in 2016, were presented by the Committee's President, Frédéric Périé, from Total's Sustainable Development and Environment Division. [CEDRE Newsletter](#)

INDIA: OSPCB NOTICE TO PARADIP REFINERY ON OIL SPILL

January 13 - Odisha State Pollution Control Board (OSPCB) on Tuesday issued show-cause notice to Paradip Refinery, a unit of IOCL, asking the authorities concerned to explain why action will not be taken against the company for failing to prevent frequent oil spills causing damage to the environment.

The Pollution Control Board issued the notice after some persons on Monday cut a pipeline on Kaudia river bank here and placed a valve to extract fuel. They used drilling machine to make a hole in the pipeline to extract fuel by using plastic pipe, which has been recovered from the spot. The thieves fled from the spot after they failed to check the oil spill. *New Indian Express* [Read more](#)

PERU: LOOK AT THE OIL SPILLED IN THE WORLD'S 2ND 'BEST PLACE FOR WILDLIFE'



Photo: A Kukama environmental monitor, from indigenous organization ACODECOSPAT, inspects oil contamination in the Pacaya Samiria National Reserve in Peru's Amazon. Photograph: Alianza Arkana/ACODECOSPAT

January 14 - Look at the oil spilled in the world's 2nd 'Best Place for Wildlife' - Walk into one of the many tour agencies in Iquitos, the biggest city in Peru's Amazon, and you'll hear many wonderful things about the Pacaya Samiria National Reserve. "Best place to see animals in their natural habitat," one guide says. "An abundance of parrots, paiche and monkeys, and all kinds of bird species," cries another.

"Pacaya-Samiria", as it's dubbed, extends for just over two million hectares and is the second largest of Peru's 170 "protected natural areas." In 2015 USA Today's travel website 10Best voted it the world's second "Best Place for Wildlife", losing out

to Ecuador's Galapagos Islands. "Located near the Amazon headwaters in Peru," 10Best stated, "the reserve is home to some of the biggest wildlife populations in the Amazon.

No doubt about it, Pacaya-Samiria is a special place, but that only makes this question all the more important to ask: What about the oil operations taking place there? What about the parts of the reserve the tourists and wildlife watchers don't see? PUINAMUDT, a collective of indigenous federations in Peru's northern Amazon, states that there are "true lakes of oil, [river] banks abandoned to crude, clots of oil in the water, black roots and sediments, toxic hydrocarbon emissions, and surface water iridescent with oil. The shadow of irresponsible and unpunished oil operations hangs over the entire area." *The Guardian* [Read more](#)

SOUTH AFRICA: PLANS UNDERWAY TO REMOVE DIESEL FROM SUNKEN SHIP IN PORT ELIZABETH

January 9 - A quick response has been prompted following concerns after diesel from a sunken ship flowed to the surface in Port Elizabeth harbour.

An estimated 40 tons of diesel has leaked from a shipping trawler, Baratz the that sank in November last year.

Environmentalists expressed concern over the impact the spill posed on the sea life, especially the penguin colony.

A ship salvage company, Extreme projects, in partnership with commercial diving contractors has responded to a call to remove diesel from the sunken fishing trawler, the Baratz, off Cape Recife in Port Elizabeth. *SABC* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: FSU FACULTY AWARDED GRANTS TO RESEARCH OIL SPILL PREVENTION

January 12 - On December 10, the National Academy of Science announced the recipients of nine "data synthesis grants," which together total more than \$4.4 million. Two of the recipients are Florida State's own Professor of Oceanography Allan J. Clarke and FSU Center for Oceanic and Atmospheric Prediction Studies research scientist Steven Morey.

Other news reports from around the world (continued)

In 2010, the Deepwater Horizon oil rig exploded and sank, releasing 210 million U.S. gallons of oil into the Gulf of Mexico before finally being sealed 87 days later. Following this event, the U.S. federal government reached criminal settlements with the two parties responsible, BP and Transocean. \$500 million of this settlement was then allocated to the National Academy of Science (NAS), a non-profit institution that was chartered by Congress in 1863. This money is being used to fund research "to enhance oil system safety and the protection of human health and the environment in the Gulf of Mexico and other U.S. outer continental shelf areas," according to the NAS Gulf Research Program site. *FSU News* [Read more](#)

USA: CRUDE BY RAIL DOWN, BUT OFFICIALS STILL BRACING FOR DANGER ON TRACKS

January 12 - Bakken crude oil shipments by rail have fallen with oil prices, but danger along Virginia's rails has not gone away, members of the Railroad Safety and Security Task Force said.

The task force called by Governor Terry McAuliffe after the CSX Transportation Inc. train derailed in downtown Lynchburg almost two years ago considers terrorist attacks among many threats related to the hazardous materials running through the commonwealth. *The News 7 Advance* [Read more](#)

ISCO news

ISCO WELCOMES NEW MEMBER

H. Henriksen AS, based in Tonsberg, Norway has joined as a new Corporate Member. The company, which traces its origins back to 1834, is focused on the reduction of operational risk and its main philosophy embraces a unique combination of engineering and production to develop and produce products based upon the customers' requirements. In regard to protection of the marine environment, Henriksen AS provides a wide range of specialized solutions in oil spill response. Each product is unique in the world. Website; <http://www.hhenriksen.com/>

LETTER OF APPRECIATION RECEIVED FROM THE RED CROSS

As mentioned in the covering letter accompanying Newsletter 514, instead of sending out greetings cards ISCO made a donation to the Red Cross.

A letter of thanks has been received – "Thank you very much for your kind donation of £100. Your donation really will make a difference to the lives of those affected most by the terrible situation. The International Committee of the Red Cross and the Syrian Arab Red Crescent have been the only major humanitarian aid agencies able to operate in Syria since the conflict began in March 2011, working round the clock to help those in desperate need of assistance. We are providing life-saving first aid support and medical supplies, in addition to running clinics that allow people with chronic conditions to access treatment, and evacuating the wounded to hospitals in safer locations".

People in the news

USA: WITT O'BRIEN'S WELCOMES TIM WHIPPLE AS CHIEF EXECUTIVE OFFICER



January 13 - SEACOR Holdings Inc. announced today that it has appointed Tim Whipple as the new Chief Executive Officer of its subsidiary Witt O'Brien's, the global leader in crisis and emergency management. Whipple succeeds Ken Burris, who has served with the company for 10 years, most recently as the company's CEO. Burris will continue to work with the business on strategic initiatives and business development. "We're delighted to welcome Tim as the new CEO," said Eric Fabrikant, COO of SEACOR Holdings Inc. "We thank Ken Burris for his many contributions to the business, which under his leadership has established an enviable market position. Tim and his team will build on this success to expand our solutions into areas that we know are at the forefront of our customers' minds."

Whipple's background combines strong credentials in both executive leadership and enterprise risk management. He has served as President of Kroll, a global leader in risk management, and SAI Global Compliance, a leader in governance, risk and compliance (GRC) software and training. Earlier in his career, he was Senior Partner leading Andersen's consulting business in central Europe. [Read more](#)

STAFF CHANGES AT ITOPF



January 14 - ITOPF said goodbye to two members of staff at the beginning of the year. Susannah Musk, who has been a Technical Support Coordinator since 2009, left ITOPF on 9th January to take up a position as Flood and Coastal Erosion Risk Management Officer with the Environment Agency in Essex. Dr Jessika Fuessel, who joined ITOPF as a Technical Adviser in 2014, has also resigned to take up a research post with the National Oceanography Centre, Southampton. We are currently looking for a new Technical Adviser to join our London-based team. We are pleased to announce the promotions of two of our technical team. On 1st January Drs Annabelle Nicolas-Kopec and Nicola Beer, who have been working at ITOPF since 2011, were promoted to the position of Senior Technical Adviser.

Photos: Susannah Musk & Jessika Fuessel (top); Annabell Nicolas-Kopec & Nicola Beer (bottom)

SAD NEWS – UNTIMELY AND TRAGIC DEATH OF RICH HABIB



Picture: At a happy time, Rich and Lindsay Habib at their wedding in Ft. Meyers last Summer along with their dog Mickey Mantle.

In recent days the marine salvage community was shocked to hear of the death of Captain Rich Habib following on a fatal snowboarding accident on 10th January 2016.

Captain Habib was vice president of Crowley Maritime Corporation's Titan Salvage subsidiary with responsibility for the company's overall performance, including operations, administration, finance and commercial activities. He was a 1977 graduate of the U.S. Coast Guard Academy. He served in various posts including commanding officer of a patrol boat and rescue station. Exchanged to the U.S. Navy, he served a tour aboard a frigate. After leaving the Coast Guard in 1984, he worked in the oil field aboard supply boats and later specialized in the international tramp heavy lift trade aboard Dock Express and Van Ommeren vessels where he sailed as master and was a project manager. He held a BS degree in physical oceanography, an unlimited master's license and was a regular member of the Council of American Master Mariners.

Well-liked and respected, Rich will be greatly missed by family, friends and colleagues.

Special feature

SHORELINE CLEAN-UP – PART 1

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.



Photo by Mark Francis at Mavis Grind, Shetland, 1998.

The only place where the Atlantic Ocean and the North Sea can be seen together.

Special feature (continued)



Frequently the only response to an oil spill is to wait until the oil arrives on the coast and be prepared for cleanup of the affected coastal environments.

Many of the methods of cleanup are efficient in the removal of oil from the environment, but they may have a heavy impact on the biological community several times worse than the oil itself.

Therefore, the form of cleanup is also a relevant factor upon considering the degree of impact of an oil spill.

It is important to begin to remove the oil from the coast as quickly as possible, because with the passage of time the oil loses its most volatile components and becomes more difficult to remove.

The oil will adhere ever more tightly to the rocky shores and to the different coastal environments, and may also be mixed with trash and other waste or simply be buried by sediments.

Our initial thought should be that the oil has caused damage to the environment to a lesser or greater extent. We now have to clean up this oil causing the minimum possible damage.

This can only be done with the close co-operation of oil spill response professionals and environmental agencies to arrive at the best solution to the problem.

It is the duty of the Planning Team to notify those in control of the strategy to be adopted.

The selection of the methods to be used is a very important stage in the response planning cycle.

To take the correct decision early can be very decisive during the later stages of cleanup.

Therefore it is important that the right people are selected for the planning team.

They need to receive prompt information about the spill and the weather conditions, knowledge of the logistical information in reference to the availability of personnel, equipment and materials.

All of these headings are part of a good contingency plan if there is one for the location.

Based on this information and local reconnaissance, the team will have the conditions to recommend to the Executive Command the most efficient strategy in order to minimise the impact to the environment and bring the response to a good conclusion, successfully and at an acceptable cost.

The response team needs to be able to justify their recommendations and clarify to the command any expected penalties, in the event other measures are taken.

Tides

Tides are the 6 hourly movement of the sea in and out. Tides are constant and are mainly caused by the gravitational pull of the moon.

Tidal Range (or intertidal zone): The difference or area between high tide and low tide. Some tidal ranges can only be a few meters, others can be several kilometers.

Spring Tides: When the moon and the sun are in complete alignment you get particularly high and low tides.

Neap Tides: When the moon and sun are aligned at right angles to each other so the gravitational pull of the moon and the sun are pulling in different directions. This makes for lower high and low tides.

We have to clean the shore doing the least amount of damage possible.

Knowing when high tide and low tide will be, as well as how high up the shore the water will come for safety reasons is important.

Also how low the water will go to allow the team to know when to stop cleaning thus reducing the damage to the sensitive life in the lower shore



Special feature (continued)

These photos show the tidal range in 2 locations. Top is a steep contour and bottom is flat.



JUNE									
		High Tide			Low Tide				
		AM	HT	PM	HT	AM	HT	PM	HT
01	Tue	11:59	6.1	--	--	6:04	0.5	6:01	1.0
02	Wed	12:26	6.7	12:49	6.0	6:44	0.7	6:45	1.3
03	Thur	1:13	6.5	1:39	6.1	7:26	0.9	7:33	1.5
04	Fri	2:00	6.3	2:28	6.2	8:12	0.9	8:27	1.6
05	Sat	2:47	6.1	3:16	6.4	9:00	0.9	9:27	1.6
06	Sun	3:35	6.0	4:05	6.7	9:51	0.8	10:27	1.5
07	Mon	4:25	6.0	4:54	7.0	10:42	0.6	11:24	1.2
08	Tue	5:16	6.0	5:43	7.3	11:32	0.4	--	--
09	Wed	6:07	6.1	6:32	7.6	12:17	0.9	12:21	0.1
10	Thur	6:57	6.2	7:21	7.9	1:08	0.6	1:11	-0.1
11	Fri	7:46	6.4	8:08	8.2	1:59	0.3	2:02	-0.3
12	Sat	8:34	6.5	8:56	8.3	2:48	0.0	2:52	-0.5
13	Sun	9:22	6.6	9:44	8.4	3:37	-0.2	3:42	-0.6
14	Mon	10:13	6.7	10:35	8.4	4:25	-0.4	4:33	-0.6
15	Tue	11:06	6.8	11:29	8.1	5:13	-0.5	5:25	-0.5
16	Wed	12:06	6.9	--	--	6:02	-0.5	6:18	-0.3
17	Thur	12:25	7.8	1:07	7.0	6:52	-0.5	7:16	0.0
18	Fri	1:21	7.6	2:06	7.2	7:45	-0.4	8:17	0.2
19	Sat	2:17	7.3	3:04	7.4	8:42	-0.3	9:23	0.4
20	Sun	3:13	7.0	4:00	7.5	9:40	-0.3	10:27	0.4
21	Mon	4:08	6.8	4:56	7.7	10:37	-0.2	11:28	0.3
22	Tue	5:04	6.6	5:52	7.7	11:33	-0.2	--	--
23	Wed	6:00	6.5	6:45	7.8	12:24	0.2	12:25	-0.2
24	Thur	6:53	6.4	7:36	7.8	1:17	0.2	1:16	-0.1
25	Fri	7:44	6.4	8:22	7.7	2:07	0.1	2:05	0.0
26	Sat	8:31	6.4	9:06	7.6	2:54	0.1	2:51	0.1
27	Sun	9:16	6.4	9:47	7.5	3:37	0.1	3:34	0.3
28	Mon	9:59	6.3	10:28	7.2	4:18	0.2	4:15	0.4
29	Tue	10:42	6.3	11:08	7.0	4:56	0.3	4:54	0.7
30	Wed	11:27	6.2	11:50	6.7	5:33	0.4	5:33	0.9

Knowing when the tide will turn will enable the clean-up team to work safely, also to retreat to a safe place and avoid being cut off or trapped with no exit point.

This is especially important in flat areas or muddy areas as the tide can rise faster than a man can run.

Many people have drowned collecting shellfish in flat areas because they have not been able to get to safety before the tide came in.

Tide tables like the one left show the times and heights of the tide for every day of the year.

These can be found at chandlers, marina shops or even as apps for Smartphone's.

If you cannot find one for the exact shore where you will be working, then looking at the tables for the nearest ports and adding or deducting minutes will get the answer.

Make sure you add a safety margin to the result until you know exactly when high or low tide will be.

To be continued in next week's Newsletter

Training

DISTANCE LEARNING COURSES FROM LLOYDS MARITIME ACADEMY

Certificate in Marine Pollution Prevention and Management - Tutored distance learning, delivered over 12 weeks - Commences: 16th March 2016 [More info](#)

Certificate in Maritime Environmental Management by part-time tutored distance learning over 12 weeks - Study commences: 7th March 2016 [More info](#)

Diploma in Marine Accident Investigation - 21st March 2016 - Tutored distance learning over 12 months [More info](#)

FRANCE: CEDRE - THE INVOLVEMENT OF VOLUNTEERS IN OIL SPILL RESPONSE

Cedre Information Day, 20 April 2016, Paris la Défense. [More info](#)

FRANCE: CEDRE – 2016 TRAINING COURSE CATALOGUE

Each year Cedre trains an average of 1,000 people, from French and overseas administrations and local government, as well as industry. New : "Response to pollution in industrial plants and rivers" ! Available : the [2016 training catalogue](#).

USA: NOAA - SCIENCE OF OIL SPILLS TRAINING: APPLY FOR SUMMER 2016

NOAA's Office of Response and Restoration, a leader in providing scientific information in response to marine pollution, has scheduled a summer Science of Oil Spills (SOS) class in Seattle, Washington, June 6-10, 2016.

Currently, we are accepting applications for three SOS classes for these locations and dates:

- Mobile, Alabama, the week of March 28, 2016
- Ann Arbor, Michigan, the week of May 16, 2016
- Seattle, Washington, the week of June 6, 2016

To view the topics for the next SOS class, download a [sample agenda](#) [PDF, 170 KB].

Please understand that classes are not filled on a first-come, first-served basis. We try to diversify the participant composition to ensure a variety of perspectives and experiences, to enrich the workshop for the benefit of all participants. Classes are generally limited to 40 participants.

For more information, and to learn how to apply for the class, visit the [SOS Classes page](#).

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

AMSA Aboard	News from the Australian Maritime Safety Authority	December 2015 issue
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	December 2015
Celtic Biogenie enGlobe Newsletter	Latest Remediation and related technology news	Autumn 2015 issue
CROIERG Enews	Canberra & Regions Oil Industry Emergency Response Group	Current issue
EMSA Newsletter	News from the European Maritime Safety Agency	January 2016 issue
Environmental Technology Online	Environmental Monitoring, Testing & Analysis	January 2016 issue
IMO News Magazine	News from the International Maritime Organization	No 4, 2015
IMO Publishing News	New and forthcoming IMO publications	December 2015
Intertanko Weekly News	International news for the oil tanker community	No 3 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	December 2015 issue
Pollution Online Newsletter	News for prevention & control professionals	January 13 issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Autumn 2015 issue
SAC News	Oil spill related and other news from Alaska	Dec.11 issue 2015
Technology Innovation News Survey	From US EPA - Contaminated site decontamination	November 16-30, 2015
The Essential Hazm at News	Alliance of Hazardous Materials Professionals	December 28 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	January 1, 2016 issue
USA EPA Tech News & Trends	Contaminated site clean-up information	Fall 2015 issue
WMU Newsletter	News from the World Maritime University	December 2015 issue

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

Events

UPCOMING EVENTS SUMMARY

COUNTRY	2016	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
SPAIN	Jan 27-29	OSPAR Marine Environment (INPUT) WG	Malaga
UK	Jan 27-28	IMarEst – Offshore Units & Application of MARPOL	London
JAPAN	Jan 28-29	PAJ Symposium 2016	Tokyo
UK	Feb 9	UK Spill Members' Meeting and Dinner	London
USA	Feb 9-10	Great Lakes Waterways Conference	Cleveland, Ohio
UK	Feb 15-19	IMO Pollution Prevention & Response S/C'ttee.	London
UK	Feb 17-18	Society of Maritime Industries Conference	Hull
QATAR	Feb 22-24	9th Oil Spill Response Officers Mtg & Planning C'tee	Doha
SAUDI ARABIA	Feb 22-24	PetroEnvironment 2016	Dammam
UK	Mar 15-17	Oceanology International	London
CANADA	Mar 23-24	8th Arctic Shipping Summit	Montreal
NIGERIA	Mar 29-31	Clean Niger Delta Conference	Abuja
JAPAN	April 7-8	NOWPAP 14th CEARAC Focal Points Meeting	Toyama
UK	April 18-22	IMO Marine Environment Protection Committee	London
UK N. Ireland	April 19-21	ISAA Training Days 2016	Enniskillen
FRANCE	April 20	CEDRE Information Day – Volunteers in OSR	Paris
USA	April 27-29	APICOM Spring Meeting	Galveston, TX
AUSTRALIA	May 2-6	Spillcon 2016	Perth, WA
CROATIA	May 10-12	ADRIASPILLCON 2016	Opatija
UAE	May 17-18	Offshore Arabia Conference & Exhibition	Dubai
NETHERLANDS	May 24-26	Bon Agreement WG on Counter Pollution Activities	Scheveningen
USA	June 21-23	Clean Pacific Conference & Exhibition	Seattle, WA
CANADA	July 7-9	AMOP Technical Seminar	Halifax
INDIA	August 11-12	Oil Spill India	Mumbai
UAE	October TBA	EI Middle East HSE Technical Forum	Abu Dhabi
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			

Company news

INDIA: NEW BOARD APPOINTMENT AT ISCO MEMBER, ALPHAMERS LTD.



AlphaMERS Ltd announces that Prof Siva Umamathy from Indian Institute of Science, Bangalore has joined the board of the company.

Prof. Umamathy is the Chairman in the Dept. of Inorganic and Physical Chemistry.

He is also a Professor in the Dept. of Instrumentation and Applied Physics and Honorary Professor in the Department of Chemistry, University of Nottingham, United Kingdom.

Prof. Umamathy is carrying out cutting edge research using spectroscopic applications to chemistry, physics and biology, which opens up possibilities in the area of finger printing of chemical components in oil logistics and spill response industries and novel technology development. <http://www.alphamers.com/>

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