

THE OSI NEWSLETTER

The OSI Newsletter is published quarterly by Oil Spill India, an industry led forum supported by its advisory board. One of the central goals of OSI is bringing together the global spill response industry & its stakeholders in the region for enhanced cooperation in planning, prevention and response of any spill or disaster in marine ecosystem, concurrently building an informative schedule of the raising Global Standards. It is intended to function as a thought - starter, change - agent and signpost through the intellectual capital that accrues through the rich assortment of diverse, pertinent and eminently interesting subjects of concern to the spill, salvage, wreck removal & marine disaster industries besides showcasing the technological depth and knowledge repertoire of the industry.

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The Energy and Climate Initiatives Society (ENCIS) is a registered non-profit organisation that supports, encourages & catalyzes the development, discussion and dissemination of consequential research and projects in energy and climate protection industries. An independent, nonpartisan organisation that facilitates stakeholder's analysis and decisions on policy frameworks and initiatives within the global frameworks of sustainable development.

ENCIS produces exclusive and pertinent multi-platform contents fostering inclusive economic prosperity through safer, cleaner, more equitable and climate-friendly energy initiatives.

With leading experts on environment, natural resources and energy, the Advisory Board of ENCIS provides the key impetus to the organisation's initiatives & strategic insights on the evolving global industry, steering an immensely profound impact on the economic, environmental and strategic landscapes of the future.

Coast Guard Inspector General reviews operations in Karnataka



MANGALURU: Inspector General VS Pathania, Commander, Coast Guard Region (West) visited the city on Tuesday to review the Indian Coast Guard operations and infrastructure development in Karnataka.

Pathania's main priorities as the Flag Officer include strengthening the coastal security through coordination with all state and central agencies and to make the seas safe for all fishermen and merchantmen on the West Coast of India.

During the visit, Pathania interacted with Coast Guard officers and inspected various units. He appreciated everyone's hard work for maintaining safety, security and pristine environment of the Karnataka Coast as well as sea areas around the state.

"It will be my endeavour that the Indian Coast Guard protects the people of Karnataka who are venturing into sea for fishing. Coordinated efforts of Coast Guard as well as other stake holders like Coastal Security Police, customs, port authorities, related industries will provide conducive environment for the state's flourishing maritime sector," said Pathania during interaction.

India Coast Guards Train With Navy

Indian coast guard vessel the ICGS Samrat docked at Sihanoukville port yesterday and kicked off a four-day visit in a bid to boost bilateral ties between the two nations, an official said. National Defense Ministry spokesperson General Chhum Socheat told Khmer Times that this was the second consecutive year the ICGS Samrat had visited Cambodia to conduct training exercises with the Royal Cambodian Navy.

"During the visit, they will hold training sessions with the Royal Cambodian Navy on rescue missions for two days from today to Thursday and also on how to clean up in the event of an oil spill. Then they will perform joint exercises on Friday out at sea," he said.

According to the Indian embassy in Cambodia, the two nations first established diplomatic relations in the 1950s which were later suspended during the Khmer Rouge regime. However, cooperation between India and Cambodia resumed in 1981 after the fall of the Khmer Rouge in 1979.

The volume of India-Cambodia trade in 2014-2015 was approximately \$160 million, a four percent increase from 2013-2014, which stood at about \$154 million.

Canada approves new pipelines to boost exports, greens ready to fight



Canada approved Kinder Morgan Inc's (KMI.N) hotly contested plan to twin a pipeline from the Alberta oil sands to the Pacific coast, setting up a battle with environmentalists who helped elect Prime Minister Justin Trudeau.

The government, under pressure from both green groups and the energy industry, said allowing Kinder Morgan to build a second pipeline next to its existing Trans Mountain line will help ensure oil exports reach Asia and reduce reliance on the U.S. market.

"Our duty is to permit infrastructure so Canada's resources get to market in a more environmentally responsible way, creating jobs and a thriving economy," Trudeau told a news conference, adding he was "under no illusions" that the Kinder Morgan decision would be bitterly disputed.

Canada's energy sector, hit hard by a two-year slump in oil prices, wants more pipelines to help ease bottlenecks in moving crude out of Alberta. Canada, home to the world's third-largest crude reserves, wants to diversify away from its reliance on the United States and into Asian markets.

Oil Spill Management Market Analysis & Forecast

The global oil spill management market size is expected to reach USD 125.62 billion by 2022.

Increasing oil spill incidents since the past five years coupled with stringent safety and environmental regulations are expected to remain key driving factor for global oil spill management market. In addition, increasing seaborne and pipeline transportation of crude oil and chemicals globally is also expected to have a positive impact on market growth.

Strict government regulations particularly in North America and Europe for employing safety devices and technologies during drilling and transportation of crude oil have

contributed towards market development in these regions. Increasing offshore and pipeline tanker transportation of petroleum products is also expected to increase demand for various oil spill management technologies. Additionally, increasing R&D by key players for efficient and rapid oil spill cleaning is expected to create opportunities for the market over the forecast period.

Growing seaborne trade between North America and Europe has resulted in increased ship traffic in arctic region. Growing concern towards product losses coupled with stringent regulations regarding transportation of petroleum products in maritime trade is expected to positively impact market expansion.

Researchers Aim to Scoop Out Marine Oil Spills



Recovering marine oil spills may soon become simple, efficient and cost-effective, thanks to a compound (gelator) developed by researchers at the Indian Institute of Science Education and Research (IISER) Thiruvananthapuram.

A team led by Dr. Kana M. Sureshan from the School of Chemistry used glucose as a starting material and through several chemical reactions produced compounds (gelators) that selectively congeal oil, including crude oil, from an oil-water mixture.

Unlike other alternatives, the gelators, which are in a powder form, can be easily applied over oil-water mixture and do not cause any environmental damage.

The results based on laboratory studies were published recently in the journal *Angewandte Chemie*.

"Unlike current methods, our gelator can recover oil from oil-water mixture and the gelator can be reused several times," says Dr. Sureshan. "But in the case of crude oil, the gelator can't be recycled. So our aim is to make the gelator cheaper and more efficient."

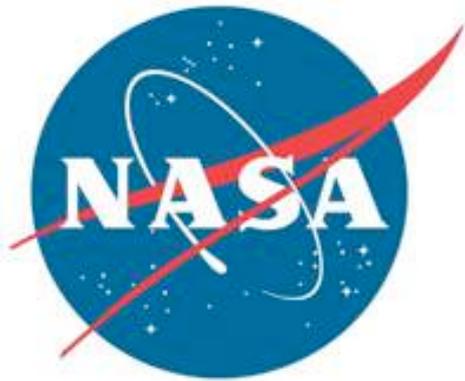
The gelator molecule is partly hydrophobic and partly hydrophilic. While the hydrophilic part helps in self-assembling to form gelator fibres, the hydrophobic part is responsible for its diffusion into the oil layer.

"To achieve better diffusion of the molecule into the oil phase and enhance the oil recovery we increased the hydrophobicity. This was done by adding an aromatic/alkyl group at some part of the molecule," he says.

Since the outer part of the fibre is hydrophobic, oil tends to get into the spongy network made of fibres.

Once inside the fibre network, oil loses fluidity and becomes a gel. As the self-assembly is strong, the gel maintains its structure and rigidity even under pressure.

NASA Survey discovers extensive coastal erosion from Gulf Oil Spill



Pasadena, CA - Dramatic, widespread shoreline loss is revealed in new NASA/U.S. Geological Survey annual maps of the Louisiana marshlands where the coastline was most heavily coated with oil during the 2010 BP Deepwater Horizon oil spill in the Gulf of Mexico.

Following the spill, the length of shoreline that receded more than 13 feet (4 meters) a year quadrupled compared to the year before the spill. The land losses occurred mainly in areas where oil had washed ashore during the spill.

Sunoco To Pay \$923,000 To Park District For 2014 Oil Spill

CINCINNATI (AP) — Sunoco has agreed to pay \$923,000 to Great Parks of Hamilton County for damage caused to a formerly pristine nature preserve by a crude oil spill nearly three years ago.

The wetland forest was decimated when a ruptured pipeline sent approximately 21,000 gallons of crude oil into a stream and pond in Colerain Township.

It was never determined how long oil was flowing from the breach.

Great Parks has so far received \$213,000 in payouts from Sunoco that serve as reimbursements for money already spent on revitalizing Oak Glen. The company will pay another \$650,000 for cleanup costs and \$60,000 for future costs.

Leader in Oil Spills Buys Dakota Pipeline's Energy Transfer Co.



Sunoco Logistics Partners L.P. is set to buy its competitor Energy Transfer Partners — under fire over the construction of the Dakota Access oil pipeline — for about US\$20 billion. Shares for both companies fell in the afternoon by 8-9 percent.

Sunoco Logistics has been found to spill crude more often than any company, with

more than 200 leaks since 2010, according to a Reuters analysis of government data.

The lands of the Standing Rock Sioux Tribe sit a half mile south of the proposed route of the Dakota Access pipeline. The tribe fears the line could destroy sacred sites during construction and that a future oil spill might pollute its drinking water.

A tribal protest over the US\$3.7 billion project drew broad support from other Native American nations, domestic and international environmental groups and Hollywood celebrities.

In response to the tribe's objections, the U.S. government earlier this month called for a temporary halt to construction along a section of the 1,100-mile line in North Dakota near the Missouri River.

Duke Energy to plead guilty in Ohio Oil Spill Case



Duke Energy has agreed to plead guilty to a misdemeanor Clean Water Act violation and pay a \$1 million fine for its August 2014 spill of 9,000 gallons of diesel fuel into the Ohio River.

Duke has also agreed to contribute \$100,000 to the Foundation for Ohio River Education as part of the plea agreement with the U.S. Attorney for the Southern

District of Ohio. Duke (NYSE:DUK) says it has already paid \$950,000 to reimburse government and private entities for their costs in relation to the spill.

The spill happened Aug. 15, 2014 when a worker transferring oil from one tank to another failed to stop the fueling when the tank was full, allowing the overflow to get into the river.

It occurred just six months after the company's more widespread environmental spill. In February 2014 a storm-water pipe under the main coal ash pond at the Dan River Steam Station in North Carolina collapsed, spewing up to 39,000 tons of toxic ash into the river.

Duke eventually pleaded to nine misdemeanor Clean Water Act Violations related to that spill and environmental issues at other North Carolina coal plants.

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Two huge tankers with Russian oil collide in Dardanelles

Two fuel tankers collided at the entrance of the Dardanelles Strait early on Nov. 30

A Turkish-flagged fuel tanker called Beşiktaş Bosphorus, filled with 140,000 tons of fuel oil, was heading to Trieste in Italy from Novorossiysk in Russia. The other tanker, a Bahamas-flagged fuel tanker called Chryssi that was filled with 4,700 tons of fuel oil, was heading to Valetta in Malta from Kavkaz in Russia.

The collision occurred in the Karabiga Demir area of the Dardanelles. There were no immediate casualties reported, according to initial reports.

The captains of the tankers reported the incident to the Directorate of Strait Vessel Traffic Service in the western Turkish province of Çanakkale. Rescue boats were sent to the scene. The damage occurred on the starboard, port and bow parts of the tankers.

Oil spill in Kingston Harbour



THE National Environment and Planning Agency (NEPA) was investigating a report of an oil spill in the Kingston Harbour which occurred Thursday afternoon.

The agency said a preliminary report indicated that the spill took place in the vicinity of Gordon Cay.

“The Office of Disaster Preparedness and Emergency Management is currently coordinating the clean-up and containment activities being undertaken by the Jamaica Defence Force Coast Guard,” NEPA said in a release.

It asked fishers and other marine interests to avoid Gordon Cay and surrounding areas until further advised.

Saskatchewan proposes tougher pipeline rules after Husky oil spill



Saskatchewan is proposing tougher rules for pipelines following an oil spill into the North Saskatchewan River that jeopardized the drinking water of thousands of people.

Legislation introduced would establish new inspection, investigation and compliance powers for government staff, as well as update and modernize penalties.

It would also provide requirements for financial assurance from operators for pipelines in high-risk locations such as water crossings.

“It does provide, I think, more ability for the ministry to provide oversight,” Energy and Resources Minister Dustin Duncan said at the legislature in Regina.

The legislation raises penalty provisions to a maximum of \$500,000 per day from \$50,000.

It would also phase in licensing of more than 80,000 flowlines which are currently exempt. Flowlines are generally smaller and shorter pipelines that connect a wellhead to a storage facility.

Amazon oil spill impacts indigenous villages on Teles Pires River



An oil spill was detected on the Teles Pires River, a major tributary of the Tapajós River in a remote part of the Amazon Basin on Sunday, November 13th. The spill occurred on the border between the Brazilian states of Pará and Mato Grosso. The São Manoel hydropower dam is being built at that location in the city of Jacareacanga.

Nearby indigenous villages have seen their water sources contaminated as a result of the spill. Brazil’s environmental agency, IBAMA, said that it can’t yet confirm that the substance that has polluted the river is oil, how much has been released, or the source of the spill.

Mongabay spoke with IBAMA’s environmental emergency coordinator, Fernanda Pirillo who said that the source was under investigation by IBAMA agents and that a formal report would be ready in roughly 10 days. In the meantime, she said, the agency is collecting information about the incident.

Pirillo went on to explain how the color of the oil suggested the amount. “The oil’s appearance, which was iridescent, suggests that there wasn’t a large amount. But we aren’t able to estimate the volume.” She told Mongabay that the oil was likely diesel or another fuel.

Oil and water: Thousands of spills recorded in Gulf



Tracking of federal data by an environmental watchdog group shows more than 11,700 oil spills have been reported in the Gulf of Mexico since the BP oil spill ended in July 2010.

But the rate of spills also has slowed significantly, from 245 a month in 2012 to 80 in October 2016, according to SkyTruth.

The station aired shocking video last month from a whistleblower who recorded his supervisors on an oil rig in 2014 opening a valve on a deep sea oil pipe and brazenly letting pollutants flow into the Gulf for 90 minutes, then talking about how they could cover it up.

Gifford Briggs of the Louisiana Oil & Gas Association said there's no proof that the many smaller spills since the BP disaster have had any significant impact on the environment.

"Many of the incidents that get reported are very small in nature, have very quick, immediate responses and there is no immediate impact," Briggs said.

Confronted with SkyTruth's findings of 10,000 oil spills in the first five years after BP, averaging an aggregate of 1 million gallons of crude in the Gulf each year, Briggs said it may sound like a lot but is actually a tiny amount, especially compared with the 20 billion gallons of crude his industry safely produces in the Gulf each year. That works out to about 20,000 gallons of oil produced for each gallon spilled.

What's more, thousands of separate spills in different locations may have polluted the Gulf with a total of 1 million gallons of crude each year since BP, but that is 200 times less than what spewed out of BP's well, from one location over 87 days.

Oil Spill, Sickening Odor Prompt Vallejo to Consider Buying New Air Monitors



Vallejo officials are considering buying a new set of air monitoring devices because the ones they do have did not pick up any measurements from an odor that sickened dozens of residents around the same time an oil spill was discovered in San Pablo Bay in September.

That smell prompted the local government to urge people to stay indoors. Its cause is still a mystery, and a top Vallejo city official calls that lack of knowledge "alarming."

Even without those answers, Vallejo Fire Chief Jack McArthur said the city needs to get ready for a potential repeat.

"We might have to face the fact that we might not ever know exactly what happened," McArthur said. "We need to prepare for the possibility that this could very well happen again."

The U.S. Coast Guard's investigation, completed last month, determined that the oil spill came from either the Phillips 66 refinery marine terminal in Rodeo or an oil tanker that was unloading crude there.

NOSDRA Demands Criminalisation of Oil Spill



The National Oil Spill Detection and Response Agency (NOSDRA) has demanded that the National Assembly amends the law of the agency to enable it to criminalise the issue of oil spill.

The Director General of NOSDRA, Sir Peter Idabor, who noted this in Abuja at the 10th

anniversary of the agency recently, bemoaned the poor adherence to the law by oil companies.

He said: "When there is an oil spill, most of the oil companies don't respond because of the weak nature of the law; because they are strong with lawyers or have seen so many spaces where they can escape so that is the problem.

"We want the National Assembly to give that enablement to be able it to criminalise the issue of oil spill. If you are an MD and your company is involved in oil spill you go to jail and take responsibility," he added.

Sequim laboratory combating oil spills with wood shavings



Stopping an oil spill could be as simple as the shake of a bottle and lighting a match thanks to some local scientists.

A team with the Pacific Northwest National Laboratory near Sequim, sponsored by the Department of the Interior's Bureau of Safety and Environmental Enforcement, continues to fine-tune a product that pulls and holds an oil spill together so it can burn, specifically in low temperature areas such as the Arctic. Two scientists in the Richland facility are working with them.

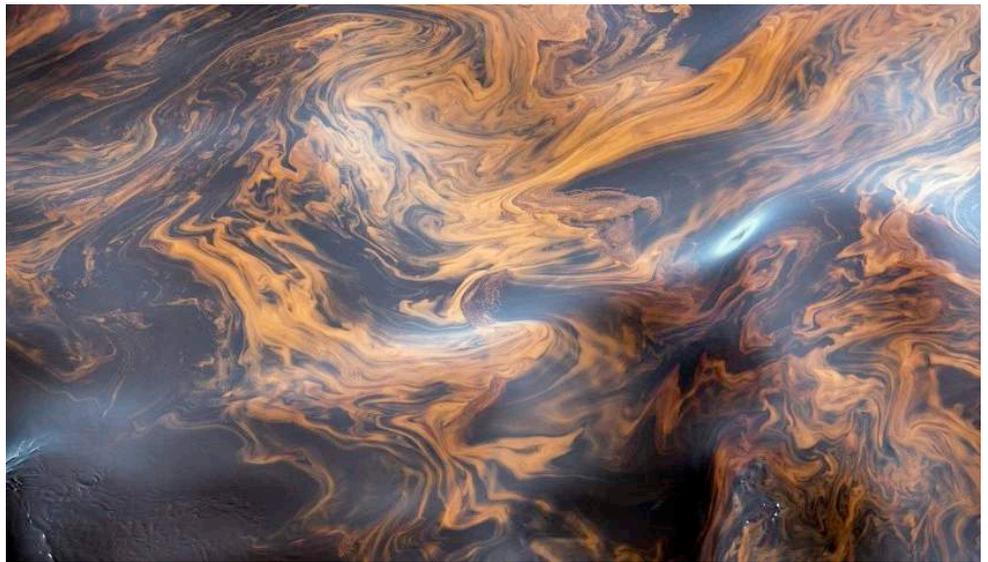
George Bonheyo, senior research scientist for the laboratory and a research professor of biotechnology for Washington State University in Pullman, leads the team and said the product could be a year away from going to market and made available to agencies such as the U.S. Coast Guard.

"There's a vast amount of oil in the Arctic, and more countries are drilling there as ice sheets shrink," Jeters said. "This project will help agencies mitigate spills in the future."

The aggregator is a wood flour – fine dust from wood processing – modified by chemists who attach oil-attracting chemicals to the surface, Bonheyo said.

It's all-natural, renewable and non-toxic, he said, adding that it repels water, prevents ice formation and works in high winds. One methodology for burning oil in water involves spraying chemicals to create an oil slick to make it easier to burn, but the oil needs to be at least 3 millimeters thick and in low wind and the chemical, which contains toxins, diffuses quicker, Bonheyo said. In icy conditions, he said, skimmers and oil booms don't work as well either.

Canada Oil Spill Program Hit by Cheap Crude, Lacks Applicants



The two-year oil price crash has hurt a Canadian government program that funds research on oil spill cleanups, resulting in fewer applicants than expected, a senior federal official said.

As a result, the government will expand the scope of its Oil Spill Response Science Program and open a second call for applications this month, Marc Wickham, Natural Resources Canada's director of energy science and technology programs, said in an interview late last week.

The program funds research that improves cleanup methods for marine oil spills. Those eligible include production, pipeline and shipping companies in the energy sector.

Wickham spoke with Reuters after it obtained details of the program's amendment through an access-to-information request.

Potential spills have been a concern for opponents of proposed Canadian pipelines that transport crude to coastal facilities. Pipelines grant Canada's largely landlocked energy sector better access to international markets. But more exports would significantly increase tanker traffic, which critics say raises the chance of spills.

Transport Minister Marc Garneau told a radio show last week the government will this year deliver on its pledge for an oil tanker moratorium on the northern west coast.

According to Natural Resources, its spill program provides a conditionally repayable C\$5 million (\$3.7 million) for four to eight projects between this year and 2019.

NOSDRA drags ExxonMobil Nigeria to court over breach of environmental laws

The National Oil Spill Detection and Response Agency (NOSDRA) has dragged Mobil Nigeria Unlimited operators of NNPC and MPN joint venture before a Federal High court in Uyo over breach of laws governing oil spill and other environmental matters.

Specifically, NOSDRA is accusing the oil firm of contravening section 6(3) of the agency's Act 2006, especially as it concerns environmental standards.

In a writ of summons filed at the Federal High Court in Uyo in a case between NOSDRA and ExxonMobil made available to newsmen in Uyo, counsel to the Federal Agency, Charles Atebo and Gboyega Oyekanmi argued that the purported clean up carried out by ExxonMobil ignored section 6(a) of Regulation 25; Oil Spill Recovery, Clean-up, Remediation and Damage Assessment Regulation of 2011.



20th January 2017, Hotel Le Meridien, New Delhi, India

THEME: SAFETY IS NOT BY CHOICE

Conference Theme

International Process Safety Conference 2017 aims to tackle the most prevalent issues facing the global process safety industry. The summit agenda stimulates learning through panel debates, technical case studies and keynote sessions which ensure you leave with the skills and knowledge required to overcome the challenges currently affecting your business and operations. The theme for this year's conference is:

“SAFETY IS NOT BY CHOICE”



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- ⌘ Senior Leaders whose role involves operations
- ⌘ Emergency Response

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