



ISCO NEWSLETTER

The Newsletter of the International Spill Response Community

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ISCO & THE ISCO NEWSLETTER

The ISCO Newsletter is published weekly by the International Spill Control Organisation, a not-for-profit organisation supported by members in 45 countries. ISCO has Consultative Status at IMO, Observer Status at IOPC Funds and is dedicated to raising worldwide preparedness and co-operation in response to oil and chemical spills, promoting technical development and professional competency, and to providing a focus for making the knowledge and experience of spill control professionals available to IMO, UNEP, EC and other organisations.

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

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

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International news

For more information on the event featured below, click on the banner

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INTERNATIONAL OIL SPILL RESPONSE TECHNICAL SEMINAR HELD IN CHINA



September 22 - Current research and technical developments in oil spill preparedness and response were in the spotlight at a major seminar in Tianjin, China (20-21 September). The International Oil Spill Response Technical Seminar brought together over 150 representatives of national government, oil industry and oil spill

response companies.

IMO's Colleen O'Haghan presented on the Organization's International Convention on Oil Pollution Preparedness, Response and Co-operation (OPRC) – the treaty covering measures for dealing with pollution incidents, either nationally or in cooperation with other countries. The seminar was organized by Yantai MSA and CNOOC Energy Technology and Service Safety and Environmental Protection Co. under the GI China Project.

The GI China Project is an initiative led by the China Maritime Safety Administration, supported by IMO and the oil industry body IPIECA, to enhance China's capacity to prepare for and respond to oil spills, through the promotion of government and industry collaboration. Prior to the Tianjin seminar, a meeting of the GI China Technical Consultative Group met to plan the project activities for 2018–2019, which will include a number of training courses, workshops and seminars to further the national spill response capability. IMO participated in the meeting to establish how IMO can continue to support these activities in the future. <http://www.imo.org>

September 26 – A related report received from ITOPF – “Between 19th-21st September, ITOPF participated in the 2017 International Oil Spill Response Technical Seminar (IOSRTS) in Tianjin, China. This seminar was organised under the umbrella of Global Initiative (GI) China, and marks 10 years since China MSA signed a 'Statement of Intent' with IMO and IPIECA in 2007.

This successful event was attended by over 180 participants. It had three themes: Spill Risk Assessment and Response Management, Spill Response Technology, and Damage Assessment. Dr Ann Zhang provided a presentation on Environmental damage compensation in the international regime”. *ITOPF* [Read more](#)

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International news (continued)

MEDITERRANEAN ACTION PLAN FOCAL POINTS MEET IN ATHENS

September - The meeting of the Focal Points of the Mediterranean Action Plan took place in Athens, Greece on 12-15 September 2017. The main objectives of the meeting were to review the progress of activities carried out in the framework of the MAP, during the 2016-2017 biennium and the draft decisions to be submitted to the Contracting Parties to the Barcelona Convention for subsequent adoption during their 20th Ordinary Meeting (Tirana, Albania, 17-20 December 2017), including the Programme of Work and Budget for the 2018-2019 biennium.

The meeting was attended by Focal Points of 19 of the 22 Contracting Parties to the Barcelona Convention (absent Algeria, Monaco and Syria) and partners of the Mediterranean Action Plan system. It was preceded by the biennial meeting of the Ecosystem Approach Coordination Group.

The MAP Focal Points agreed that the theme of the ministerial segment of the 20th meeting of the Contracting Parties to the Barcelona Convention will focus on the theme of the implementation of the Sustainable Development Goals in the Mediterranean and on pollution and biodiversity, linking discussions to the third meeting of the UN Environment Assembly (UNEA 3) that will have taken place at the beginning of December. Focal Points were reminded of the importance of their governments' engagement in UN Environment initiatives and upcoming events, such as UNEA 3 and were invited to register their voluntary commitments at #BeatPollution, the GPA meetings in Bali, and the Clean Seas campaign. *UNEP* [Read more](#)

Incident reports

UK: ACID LEAK - FIFTY FIREFIGHTERS BATTLE TO STOP 'MAJOR LEAK' OF HULL TANKER CONTAINING 580 TONNES OF HYDROCHLORIC ACID

September 19 - Humberside Fire and Rescue said crews were called to a leak in a tank containing 580 tonnes of hydrochloric acid at the King George Dock late last night. The acid caused a vapour cloud as 50 firefighters were called to deal with the incident, near to the River Hull. They said the leak did not lead to any evacuations and was at the east end of the dock with waste land to the side of it. *The Sun* [Read more](#) [Thanks to Don Johnston of ISCO Industry Partner, DG & Hazmat Group]

USA: ALASKA - SPILL AT VALDEZ OIL TERMINAL BIGGER THAN EXPECTED

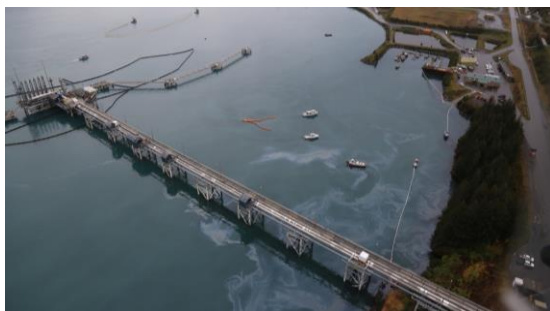


Photo: Responders use a Current Buster and sorbent boom to collect rainbow sheen that has been contained near the Valdez Marine Terminal on Sept. 23. Photo shows Berth 4 and the surrounding area. Photo courtesy Alyeska Pipeline

September 24 - Response to a crude oil spill at the Valdez Marine Terminal continues, with an estimated 400 gallons of an oily water mix recovered, more than 23,000 feet of boom deployed and over 25 vessels responding on the water, Alyeska Pipeline Service Co. officials said Sept. 23.

The response was focused on the area to the north and northwest of the terminal, around berths 4 and 5, and there were no observed areas of concentrated oil on the water, the pipeline company said.

The spill, detected on Sept. 21, was initially estimated to be just up to 100 gallons. It remains under investigation by federal and state authorities. *The Cordova Times* [Read more](#)

Incident reports (continued)

GREECE: PUMPING OIL FROM HOLD OF SUNKEN TANKER POLLUTING SARONIC GULF RESTARTS AFTER 3-DAY DELAY



September 23 - After a three-day delay, pumping oil from the hold of sunken oil tanker Agia Zoni II that polluted the Athens coastline restarted on Saturday morning.

The process began at 09:20 on Saturday, after a three-day pause. Tanker Syros that took over the pumping procedure had pulled 50 cubic meters of oil by early evening.

The decision to assign the work to Syros was taken by Minister of Shipping Panagiotis Kouroumbilis on Friday evening. On Friday morning, the assignment was to be given to Aegean Breeze I that belongs to another shipowner.

Greek Reporter [Read more](#)

NIGERIA: WITH FORCE MAJEURE ON NEMBE OIL LINE, NIGERIA RISKS REVENUE, PRODUCTION CUTS

September 24 - The volume of crude oil produced and sold daily by Nigeria could take a fresh cut from the shutdown of a critical oil line in the Niger Delta region – the Nembe Creek Trunk Line (NCTL) for emergency repairs. A statement from Aiteo Eastern Exploration and Production Company, which owns and operates the NCTL, stated that a new oil leak discovered on September 15, had forced the firm to declare a force majeure on the line. *This Day Live* [Read more](#)

AUSTRALIA: QUEENSLAND - INVESTIGATION LAUNCHED INTO HARBOUR CHEMICAL SPILL

September 25 - THE Department of Environment and Heritage Protection (EHP) is investigating a reported sodium hydroxide spill from a vessel at QAL wharf into the Gladstone Harbour overnight.

EHP was notified today an unconfirmed amount of sodium hydroxide had been released from a vessel at QAL wharf, into Gladstone Harbour. While investigations are ongoing to determine the exact amount of sodium hydroxide spilled, initial reports suggest a loss of "several tonnes". *Gladstone Observer* [Read more](#)

USA: TEXAS - COMPANY CLEANS UP AFTER SPILLING OIL IN REFUGIO

September 27 - A company in Refugio County is cleaning and replacing a pipeline after it spilled oil earlier this month. Seventy-five barrels of crude oil spilled Sept. 19. The oil was contained to a tributary of Copano Creek, said Michelle Banks, a spokeswoman for the Texas Railroad Commission, which regulates the oil and gas industry. *Victoria Advocate* [Read more](#)

GREECE: REEFER SENIOR OFFICERS DETAINED AFTER OIL LEAK, PIRAEUS

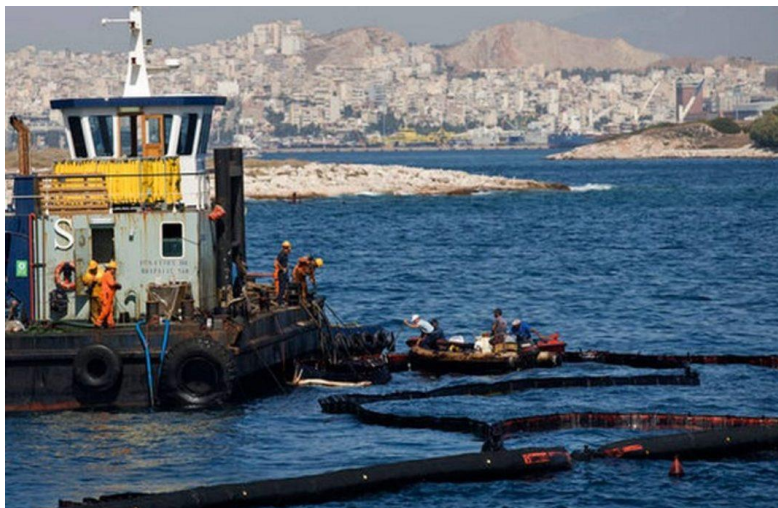
September 29 - Greek Coast Guard detained Master and Chief Engineer of reefer ICE GLACIER ON Sep 27 in Piraeus, for an oil leak, which occurred during bunkering operation. Small amount of heavy fuel leaked from vent pipe into deck, some of it leaked overboard, making some 70 sq meters stain in water. Master of the ship immediately informed authorities about the leak, crew took all required measures to contain and clean up leaked fuel. Private company was contracted for a clean-up operation. *Maritime Bulletin* [Read more](#)

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

GREECE VOWS TO IMPROVE TANKER CHECKS AFTER SARONIC GULF OIL SPILL

September 21 - The Greek government has promised urgent inspections of small coastal tankers, 11 days after an oil

News reports from around the world (continued)



spill from a shipwreck left beaches on Athens' coastline polluted, and off bounds to swimmers.

The Ministry of Shipping says the unscheduled checks will affect Greek-flagged fuel tankers that are plying domestic waters, which are usually older and less stringently monitored than larger tankers that are used for international transport.

The announcement on Thursday came in the wake of the Sept. 10 sinking of *Agia Zoni II*, off the island of Salamis, and that had 2,500 tons of fuel on board.

Authorities failed to contain the ensuing leakage, which polluted parts of a 40-kilometer line of coastline that includes the Greek capital's most popular beaches. *Greek Reporter* [Read more](#)

GREECE: AGIA ZONI II – LATEST DEVELOPMENTS

September 22 - During the week of 18–21 September 2017, senior representatives from the IOPC Funds travelled to Greece and held meetings with Greek government officials, the Coastguard, the shipowner's insurers, organisations handling the response operations and representatives of the International Tanker Owners Pollution Federation (ITOPF).

They also visited the polluted sites to gain an understanding of the situation, the clean-up operations and the impact of the spill on local businesses.

The incident, which occurred on 10 September 2017 whilst the tanker *Agia Zoni II* was at anchor west of the port of Piraeus, Greece, has caused damage to the east coast of Salamina Island and coastal areas in the vicinity of the Port of Piraeus and Athens.

The IOPC Funds is now working with all the relevant parties to create a plan of action, based on its experience of ensuring that governments, local authorities, businesses and individuals are compensated for losses associated with oil tanker pollution incidents <http://www.iopcfunds.org/news-events/detail/item/787/>

GREECE: VIDEO ANIMATION: ROUTE OF GREEK TANKER SHOWN BEFORE SINKING, SPILLING OIL

September 27 - *Tanker Shipping and Trade* [Download the video animation and the accompanying article](#)

USA: EPA REMOVES WASTE AT TEXAS TOXIC SITES

September 23 - The Environmental Protection Agency says it has recovered 517 containers of “unidentified, potentially hazardous material” from highly contaminated toxic waste sites in Texas that flooded last month during Hurricane Harvey.

The agency has not provided details about which Superfund sites the material came from, why the contaminants at issue have not been identified and whether there's a threat to human health. *The Washington Post* [Read more](#)

USA: WISCONSIN - ABOUT 100 PEOPLE TRAINED DURING COAST GUARD'S SIMULATED OIL SPILL DRILL IN STURGEON BAY

September 25 - More than 100 people from 16 government agencies and local emergency response departments participated in a training drill Friday in the bay off of Potawatomi State Park.

The Coast Guard Sector Lake Michigan hosted the drill to practice response efforts for a simulated oil spill, according to a Coast Guard news release. The drill brought 112 people to the site for a full-scale training exercise.

Agencies that participated in the drill included city and county emergency response teams, Green Bay Metropolitan Fire Department, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, National Oceanic and Atmospheric Administration, U.S. Venture Inc. and Wisconsin Department of Natural Resources.

Green Bay Press-Gazette [Read more](#)

News reports from around the world (continued)

USA: SLICK PLANNING AIMS TO CONTAIN OIL SPILLS ON COLUMBIA RIVER

September 27 - Ten to 15 times a week, a train carrying 3.5 million gallons of oil rolls within feet of the Columbia River. It's enough to fill five Olympic-sized swimming pools.

Officials with the Washington State Department of Ecology joined others Wednesday from the federal Environmental Protection Agency and the Oregon Department of Environmental Quality in watching the drills at Hat Rock State Park near Hermiston.

BNSF is the first rail company in the state on the verge of complying with a 2015 state law requiring railways carrying oil through the state to have plans for oil spills into the water. *Tri-City Herald* [Read more and watch video](#)

USA: GREAT LAKES OIL TRANSPORT SYMPOSIUM PROCEEDINGS NOW AVAILABLE



September 29 - How does crude oil move through the Great Lakes Basin? New York Sea Grant was among the nearly 130 federal, state and provincial governments; industry; NGOs; and academic entities participating in the 2017 Crude Move Symposium addressing the economics, risks, and hazards of crude oil transport through such important waters as the Great Lakes and St. Lawrence River system and the Gulf of Mexico.

The 2017 Crude Move Symposium proceedings and video addressing the economics, risks, and hazards of crude oil transport through such important waters as the Great Lakes and St. Lawrence River system are now available online.

The 39-page proceedings and video recordings of the symposium are now available online at www.glc.org/work/oil-transportation/publications/

The symposium was sponsored by a partnership of the Great Lakes Commission, the Great Lakes Sea Grant Network, the Gulf of Mexico Sea Grant Oil Spill Science Outreach Program, the International Joint Commission, the Gulf of Mexico Research Initiative, and the Joyce Foundation. *Oswego County Today* [Read more](#)

NO NEWS FROM YOUR PART OF THE WORLD?

Note from Editor – This week “News Reports from Around the World” contains only stories from Greece and USA – I’m sorry about this. Perhaps I’m not looking in the right places but I really would be grateful if members and readers would help - If you come across a report or an article that you think worth sharing with other members of the response community, please Imagesend it to the editor at info@spillcontrol.org

ISCO news

ISCO ACTIVITIES LAST WEEK



Photo: Member of ISCO Executive Committee, Capt. Bill Boyle MNI, FISCO on the ISCO stand at Contamination Expo in London

ISCO attended the Contamination Expo event held at ExCel in London. In addition to spill response the event featured Hazardous Materials, Land Remediation, Nuclear Decontamination, Clean Air Technology and Geotechnology

ISCO Secretary Matthew Sommerville attended the three-day meeting of the 2017 Industry Technical Advisory Committee (ITAC) held at the UK's Plymouth Marine Laboratory. ITAC's membership comprises oil industry (i.e. members of OSRL and other GRN OSROs) international organisations (ITOPF, IMO, IOPC etc), Governmental organisations (USCG, NOAA, etc...) R&D institutes (CEDRE, GoMRI etc...). It also includes academic institutes involved in industry backed studies, and other organisations with a non-commercial interest in improving oil spill response.



Group Photo of attendees at the ITAC Meeting held at the Plymouth Marine Laboratory (Image Credit: Oil Spill Response Ltd. (OSRL))

Contributed article

THE LONG BLUE LINE: THE U.S. COAST GUARD'S ENVIRONMENTAL PROTECTION MISSION

This blog is part of a series honoring the long blue line of Coast Guard men and women who served before us. Stay tuned as we highlight the customs, traditions, history and heritage of the Coast Guard. Written by William H. Thiesen, Coast Guard Atlantic Area Historian. Forwarded to ISCO by Bill Hazel, Director of Marine Services, MPC Detroit.



Above: The Liberian-flagged tanker Argo Merchant sinks off the coast of Massachusetts in 1976. U.S. Coast Guard photo.

The U.S. Coast Guard has been the steward of the nation's maritime environment since 1822. That year, Congress tasked the U.S. Revenue Cutter Service with monitoring federal forest preserves that yielded specialized ship timber for building the U.S Navy's wooden warships.

Contributed article (continued)

During the late 1800s, the service's environmental mission expanded to protect endangered resources, including fish, whales and fur-bearing marine mammals. This became especially important with the acquisition of Alaska in 1867 and Hawaii in 1898 – the resulting expansion of U.S. territorial waters. Many species of fish and marine mammals in these waters faced extinction in the face of intensive fishing, whaling and sealing until the Department of the Treasury tasked the Coast Guard with regulating the catch of U.S. and foreign vessels.

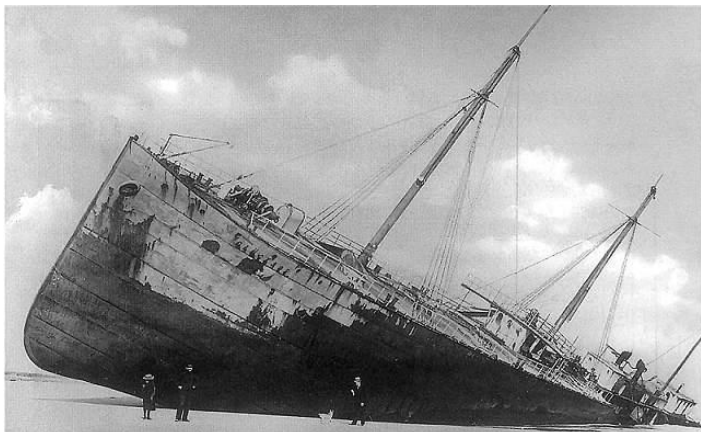


Photo (left): The 2,700-ton tanker *Glückauf* (meaning “good luck”) sits aground on Fire Island, Long Island, New York, in 1893. Public domain image.

and liquid petroleum products prevailed as ship fuel and cargo.

The Coast Guard's role in oil and chemical spill response officially began in 1924, when Congress passed the [Oil Pollution Act](#). After World War II, numerous high-profile oil spills occurred; most notable among these were the Torrey Canyon spill in 1967 and the [Argo Merchant](#) spill in 1976. With these large environmental disasters came greater regulation of oil tankers and improved technology for responding to chemical spills. At about the same time, Congress tasked the service with monitoring unauthorized substance discharge, enforcing ballast water regulations and ensuring that all commercial vessels met U.S. environmental safety and maintenance standards.

Photo (right): The tanker *Exxon Valdez* sits aground in Prince William Sound, Alaska, in 1989. The tanker spilled 11 million gallons of crude oil. U.S. Coast Guard photo.



Oil spill occurrence seemed to reach its climax in 1989, when the supertanker [Exxon Valdez](#) ran aground in Price William Sound, Alaska. The resulting spill of 11 million gallons of crude oil was the largest spill in U.S. waters up to that time. The Exxon Valdez disaster led to passage of the [Oil Protection Act of 1990 \(OPA 90\)](#). The OPA 90 regulations included mandatory double-hull designs for new tanker construction and a new rapid response capability for the Coast Guard. Enforcement of OPA 90 regulations became the single largest law enforcement assignment of the Coast Guard since Prohibition and the interdiction of illegal liquor.



Photo (left): A Coast Guard Falcon jet crew monitors oil rigs set on fire in 1990 during the Gulf War. U.S. Coast Guard photo.

Even in times of war, the Coast Guard has engaged in protecting the environment. In February 1991, [Iraqi forces sabotaged oil rigs](#) in the Persian Gulf area causing fires and massive oil spills. Two Coast Guard HU-25A Falcon jets deployed for Saudi Arabia as part of a U.S. oil-spill assessment team. Two Coast Guard HC-130 Hercules aircraft joined them with spare parts and deployment packages. The Falcons mapped over 40,000 square miles locating “every drop of oil on the water” and provided daily-updated analysis of location, condition, and drift projections of the oil.

On April 20, 2010, an explosion rocked the offshore drilling rig [Deepwater Horizon](#) in the Gulf of Mexico. The explosion resulted in the largest oil spill in U.S. history, releasing approximately 210 million gallons of crude oil. The

Contributed article (continued)

Deepwater Horizon disaster dwarfed the volume of oil spilled by the Exxon Valdez and equaled 90 percent of all the oil spills in U.S. waters recorded in the previous 40 years. As in all spill response efforts, the Coast Guard played a leading role in overseeing the containment and clean up of the spill.



Photo (left): Vessel crews respond to the Deepwater Horizon offshore drilling rig after an April 2010 explosion set it on fire and caused a massive oil spill. U.S. Coast Guard photo.

The service now supports five environmental protection missions. The **first** is prevention, by stopping pollution before it occurs with training, equipment and procedures. The **second** is enforcement through civil and criminal penalties for polluting or non-adherence to Coast Guard regulations. The **third** is surveillance through pollution over flights, vessel boardings, harbor patrols, fluid-transfer monitoring, and facility inspections. The **fourth** is response through cleanup and impact limitation of an oil or chemical discharge. The **fifth** is in-house abatement, ensuring that Coast Guard vessels and facilities comply with federal pollution laws and regulations.

In addition to its oil and chemical spill response tasking, the service continues to protect U.S. fisheries through regular law enforcement patrols. The service has even undertaken the monitoring of airborne emissions by large marine vessels operating in U.S. waters. Under a new memorandum of understanding, the Coast Guard has partnered with the [Environmental Protection Agency](#) to inspect marine vessels and take appropriate actions in the event of emissions violations.

The Coast Guard has been a steward of the nation's maritime environment for nearly 200 years. It has expanded and adapted its mission to ever-changing natural and man-made threats to the oceans and inland waterways.

Ten years ago

Two items from the ISCO Newsletter 29 – 25/9/2006

LEBANON UPDATE - NEW TECHNIQUE FOR SUB-SEA OIL RECOVERY IS BEING TESTED

In its offer to provide technical assistance to REMPEC, ISCO predicted a number of difficulties that could arise due to the long delay in starting the clean-up. One of these was the possibility that quantities of oil could develop negative buoyancy and sink to the sea-bottom. Realising that this could happen (as has now proved to be the case) members of the ISCO Executive Committee discussed the matter and, as an outcome, an existing project based on a concept developed by ISCO President, David Usher, has been accelerated. In a co-operation between Marine Pollution Control Inc. and Deep Marine Technology, the new system is undergoing proving trials between October 3 - 6 in Travis Lake, Austin, Texas. The new technique is able to suck up the oil from the sea-bed and pump it to a reception barge. The components of the system can be air-freighted and assembled on a suitable vessel of opportunity. Having seen graphic video footage of the sub-sea oil off the Lebanese coast, ISCO Secretary, John McMurtrie, believes the new technique will be able to recover the oil at a productive rate and in a very selective way, minimising sea-bed disturbance. This development is a good example of how ISCO can assist in finding effective answers to difficult problems.

WHAT WOULD YOU DO WITH A BULK MILK TANKER SPILL?

In recent days an interesting exchange of views has been ongoing within the Hazmat 101 Group. The scenario is a large road tanker carrying milk. The vehicle is involved in an incident that results in the load being spilt (no accompanying loss of oils from the vehicle). The consensus is that milk is not a hazardous substance and we suspect that the most common reaction would be to wash down the road and flush everything down the nearest storm drain, perhaps relying on the dilution effect to negate possible problems. But is this a good idea? A large volume of spilt milk impacting a waterway creates a pollution event, resulting in fish kill and other undesirable effects; most likely it will also be in contravention of clean water regulations. If the milk is trapped in a roadside ditch and simply left to rot, it can become an unpleasant public health issue. The conclusion is that, unless the spill is massively diluted in a large body of moving water, a clean-up operation will be necessary.

Science and technology

INDIA: IISER SCIENTISTS DEVELOP WOOD-PULP BALLS TO CLEAN OIL SPILLS

September 18 - Researchers from Indian Institute of Science Education and Research (IISER) in Kerala wanted to look for methods that can both clean the water as well as recover the precious spilt oil.

"We have made small balls of cellulose and dipped them in a solution of the gelator," Sureshan said. The gelator repels water and only absorbs the oil. It congeals the absorbed oil, which could be recovered by applying pressure or through distillation.

"We have chosen these material because the cellulose pulp is very cheap and biodegradable," said Sureshan, one of the authors of the study published in the journal *Angewandte Chemie*. Each cellulose ball can absorb oil 16 times its own weight. After the oil is recovered, the left-over pulp can be recycled, he added. *India Times* [Read more](#)

CANADA: SMALL CALGARY FIRM LOOKING TO SHAKE UP PIPELINE INDUSTRY WITH NEW LEAK DETECTION TECHNOLOGY

September 19 - [Calgary's Hifi Engineering](#), among other players globally, uses fibre-optic cables to detect pinhole pipeline leaks within seconds. The sensors can also alert operators about nearby construction or earthquakes that could disturb or diminish the integrity of pipe.

Hifi, a privately held firm with 15 employees, has been quietly testing its fibre-optic sensors in several locations across the continent, including in spots known for high-profile spills. The company's sensors can be installed on top of pipes, inside or next to them, and can discern regular noises, such as nearby traffic, from leaks that trigger alarms and quickly alert operators. Hifi's expansion efforts are focused on new pipelines and retrofits of existing ones, especially in sensitive areas such as river crossings, spots where erosion is a concern and locations of previous spills. *Calgary Herald* [Read more](#)

FINLAND: BIOSTIMULATION PROVED TO BE AN EFFICIENT METHOD IN THE COMPARISON OF IN SITU SOIL REMEDIATION TREATMENTS AFTER A SIMULATED OIL SPILL ACCIDENT

September 21 - Researchers compared biostimulation, chemical oxidation, and natural attenuation treatments in freshly contaminated conditions at pilot scale during a 16-month experiment. A real fuel spill accident provided a model for the experiment setup and soil contamination. Biostimulation was found to decrease contaminant leaching into water significantly, including NAPL. Total NAPL leachate was 19% lower in the biostimulation treatment than in untreated soil and 34% lower with biostimulation than with oxidation treatment. Soil bacterial growth and community changes were first observed due to the increased carbon content via oil amendment and later due to enhanced nutrient content via biostimulation. Overall, biostimulation enhanced biodegradation of readily available oil in the mobile phase and consequently reduced contaminant migration through the soil. Chemical oxidation did not enhance soil cleanup and even mobilized contaminants.

Simpanen, S., M. Dahl, M. Gerlach, A. Mikkonen, V. Malk, J. Mikola, and M. Romantschuk. *Environmental Science and Pollution Research* 23(24):25024-25038(2016)

This paper is Open Access at <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5124059/> For additional information on this study see S. Simpanen's dissertation at <https://helda.helsinki.fi/handle/10138/168815>.

Technology Innovation News Survey <https://clu-in.org/products/tins/>

Technical support

USA: MARPLOT 5.1 NOW AVAILABLE

September 22 - MARPLOT 5.1 is now available for download at <https://www.epa.gov/cameo/marplot-software>

Note: If you're upgrading to MARPLOT 5.1 from a previous version, follow the instructions on the download page to ensure that your data is transferred successfully to the new version.

What's changed in MARPLOT 5.1?

- Added ability to move objects to a different layer (if the data fields match)
- Added geodatabase files to the list of supported import file types
- Enhanced import to provide the option to import layers into folders
- Created a new MARPLOT file type (DBZ) that allows folders from the panel to be included in the export file
- Modified the new layer function to allow cloning of an existing layer (to use its settings as a template for the new layer)
- Added ability to include links to local files on the computer in popup notes and info boxes
- Switched to SQLite as the internal database structure (rather than DBF)
- Added support for Date and Date-Time fields

Technical support

- Improved time zone options in the Date and Time map extra (as well as the Date/Time data fields)
- Revised basemap options, including new Esri basemaps and NOAA nautical charts
- Added enhanced support for U.S. National Grid coordinates in export and import
- Switched to a new offline basemap tile provider
- Enhanced search to allow object popup notes to be included as an option
- Added ability to show object popup notes and coordinates in the search results (and therefore also included them in the Copy Table function)
- Updated U.S. Boundaries layers to 2016 data
- Made improvements to the installers and the data upgrade process for existing users
- Added enhancements for program stability and improvements for program speed
- Made additional improvements to the program interface and fixed bugs

Want to know if your software is up to date? - The latest versions of the CAMEO software suite desktop programs are ALOHA 5.4.7, CAMEO Chemicals 2.7, CAMEOfm 3.3, MARPLOT 5.1, and Tier2 Submit 2016. We also have a CAMEO Chemicals app (version 2.7.01) for mobile phones and tablets, which you can get on Google Play and in the App Store. [Thanks to Alan Finkelstein of Hazmat 101 Group]

NOAA OR&R: HOW TO LOCATE WILDLIFE THREATENED DURING OIL SPILLS



Harbor seals are one of the many species cataloged in our Environmental Sensitivity Index. Image credit: Marge Brigadier, NOAA Monterey Bay Aquarium.

August 7 - Scenario: You're a state natural resource manager for a coastal salt marsh and just got a call that a tanker spilled thousands of gallons of crude oil that is now heading for your shores. You have maybe two hours before the oil starts washing up on your coast.

- What do you do?
- How do you determine what animals may be in jeopardy?
- How do you prepare a response plan to protect those species?

Anticipating the information state and federal staff need when responding to an oil spill or other environmental hazard is what

we do. In addition to providing scientific support, we've developed guides and databases for resource and response managers to use in those early, sometimes chaotic, hours of an incident. [Read more on how to access help and guidance from NOAA OR&R](#)

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

AMSA Aboard
[Newsletter from George Holliday](#)
[Bow Wave](#)
[Cedre Newsletter](#)
[CROIERG Enews](#)
[EMSA Newsletter](#)
[Environmental Technology Online](#)
[IMO News Magazine](#)
[IMO Publishing News](#)
[Intertanko Weekly News](#)
[JOIFF "The Catalyst](#)
[Maritime Executive Magazine](#)
[MOIG Newsletter](#)
[NOWPAP Quarterly](#)
[Ocean Orbit](#)
[OCIMF Newsletter](#)
[Pollution Online Newsletter](#)
[Safe Seas, Clean Seas](#)
[Sea Alarm Foundation Newsletter](#)
[Technology Innovation News Survey](#)
[Transport Canada Newsletter](#)
[UK NCEC](#)
[USA EPA Tech Direct](#)
[USA EPA Tech News & Trends](#)
[WMU Newsletter](#)

News from the Australian Maritime Authority
News and commentary on HSE issues from George Holliday
Sam Ignarski's Ezine on Marine & Transport Matters
News from Cedre in Brittany, France
Canberra & Regions Oil Industry Emergency Response Group
News from the European Maritime Safety Agency
Environmental Monitoring, Testing & Analysis
News from the International Maritime Organization
New and forthcoming IMO publications
International news for the oil tanker community
Int'l Organisation for Industrial Hazard Management
Often contains articles of interest to the spill response community
News from the Mediterranean Oil Industry Group
News from the North West Pacific Action Plan
Newsletter from the International Tanker Owners Pollution Federation
News from the Oil Companies International Marine Forum
News for prevention & control professionals
Quarterly Newsletter from Maritime New Zealand
Oiled wildlife Preparedness and Response news from Sea Alarm
News from US EPA – Contaminated Site Decontamination
News and articles re transport of dangerous goods in Canada
News from the National Chemical Emergency Centre
Remediation of contaminated soil and groundwater
Contaminated site clean-up information
News from the World Maritime University

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

Events

NOSCA SEMINAR 2017 HAS BEEN CANCELLED

News received from Mikael Rydberg, NOSCA Chairman – After opening for registration for this year's NOSCA seminar, we have received lots of feedback from you all. These messages reflect the current challenges in the market situation, strained economic situation and hence travel restrictions. Unfortunately, the number of registrations this year were not sufficient to conduct the seminar, and we regret to have to cancel the seminar. We are convinced that a big part of the seminar value lies in networking and discussing with others sharing the interest in oil spill preparedness. You are all expecting a certain size of the event, and we see that this will not be possible for this year's seminar.

This decision was of course not easy for us to make. However, we are more optimistic regarding next year and have already some exciting ideas. We hope to be able to link the seminar to the NOFO Oil-on-Water exercise, which is held in June 2018. This will give opportunity to observe the offshore exercise on site, and with use of all the NOFO resources involved. <http://nosca.no/events/categories/seminar/>

Upcoming events summary

COUNTRY	2017	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
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
IRELAND	Oct. 12	International Spill Control Association Seminar	Dublin
AUSTRALIA	Oct. 17	Dangerous Goods Rail Safety Forum	Perth
NORWAY	Cancelled	NOSCA Seminar 2017	Horten
SOUTH KOREA	Oct. 18-20	World Ocean Forum	Busan
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 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
UK	Dec. 6-8	Salvage & Wreck Removal Conference	London
UK (N. Ireland)	Dec 12	ISAA Christmas Meeting and Lunch	Hillsborough
2018			
CANADA	Feb. 21-22	12th Arctic Shipping Summit	Montreal
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			

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