

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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International news

BP: OIL UNLIKELY TO BE FULLY EXPLOITED DUE TO CLIMATE CONCERNS

October 14 - The world's oil resources are unlikely to ever be fully exploited, BP has admitted, due to international concern about climate change.

The statement, by the group's chief economist, is the clearest acknowledgement yet by a major fossil fuel company that some coal, oil and gas will have to remain in the ground if dangerous global warming is to be avoided.

"Oil is not likely to be exhausted," said Spencer Dale in a speech in London. Dale, who chief economist at the Bank of England until 2014, said: "What has changed in recent years is the growing recognition [of] concerns about carbon emissions and climate change." *Edie.net* [Read more](#)

INTERNATIONAL OPRC EXERCISE IN THE CARIBBEAN

A Report from RAC/REMPEITC-Caribe on last week's IGWAN 2015 Exercise



RAC/REMPEITC-Caribe participated with six regional delegates as observers to the OPRC exercise, Igwan 2015, organized by the Martinique Prefecture (07-08 October 2015) at le Robert in Martinique. The 6 regional observers were from neighbouring islands States and Territories of the Caribbean (more precisely:

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International news (continued)



Antigua and Barbuda, Barbados, Dominica, Saint Lucia, Saint Vincent and the Grenadines, Trinidad and Tobago).

The observers expenses were covered with IMO TCD funds with the coordination of RAC/REMPEITC-Caribe.

This exercise provided valuable information of how the French oil response system operates. The observers were able to participate in the practical exercises, the demonstration of the response equipment, and visit the Maritime Rescue Coordination Centre of Fort de France. It enabled them to have a better understanding of the constraints and difficulties of the different response strategies and improve coordination and communication between the region.

RAC/REMPEITC-Caribe is the Regional Marine Pollution Emergency Information and Training Center for the Wider Caribbean. REMPEITC-Caribe is a Regional Activity Center (RAC) for the Protocol Concerning the Cooperation in Combating Oil Spills in the Wider Caribbean Region (Oil Spills Protocol). <http://cep.unep.org/racrempeitc>

UPDATE ON FISHHEALTH PROJECT, 2012 ITOFF R&D AWARD WINNER



October 9 - As recent events continue to show, resorting to chemical dispersants to deal with oil spills in coastal environments is a real but extremely controversial matter. At the centre of this controversy is whether the risk of ecological effects on marine species from toxic oil components increases or decreases when dispersants are used.

However, lacking for such a risk assessment is a proper understanding of the mechanisms through which toxic effects, classically observed at subcellular level, propagate through the levels of biological organisation to affect ecosystem functioning and services. Despite eye-catching titles, recent studies are largely unsuccessful at addressing this issue.

To promote an ecologically relevant approach to risk assessment, FishHealth investigated the impact of dispersant, oil and dispersant-treated oil on populations of juvenile European sea bass. *ITOPF* [Read more](#)

ENVIRONMENTAL POLLUTION - IS YOUR BUSINESS WATERTIGHT?

October 12 - Business owners and site managers need to ensure that their facilities are protected from water pollution and flooding. How will spill containment systems work in a real-life emergency? Would regulatory authorities be satisfied that containment systems are effective? David Cole from Hydro Consultancy finds out. Flooding, pollution spills and fires are not far-fetched disasters that are unlikely ever to befall industrial or commercial premises. They happen all the time. The only acceptable kind of pollution risk is one that a business can demonstrate it has taken adequate measures to protect against. *Edie.net* [Read more](#)

Incident reports from around the world

CANADA: NORTHERN QUEBEC FUEL SPILL

October 8 - The Canadian Coast Guard (CCG) was notified late October 7 and immediately responded to a fuel spill near the community of Salluit, West of Ungava Bay, in Northern Quebec. The M/T Sarah Desgagnés was transferring fuel to the community of Salluit in preparation for the winter months ahead. Strong winds and snow required the transfer be stopped for safety reasons. Following the standard emergency disconnect process, the fuel line was severed by the vessel's propeller. At that time, the fuel transfer had already stopped. Current estimates are around 3,000 litres of fuel spilled.

Local governments and other partners were immediately informed and the CCGS Terry Fox was on-site at 08:30 local time October 8 to assist in initial assessments and any clean-up activities. Impacts to the shoreline, fish and wildlife in the area are being assessed by Environment Canada. At this time, the risk is low but as a precautionary measure, and to address any potential impact on clams/mussels since there is a subsistence harvest, the community of Salluit has issued an advisory notice to residents not to conduct harvesting activities near the area until further notice. The fuel discharged in the water is expected to dissipate quickly. No observable sheen has been seen around the M/T Sarah Desgagnés. *Canadian Coastguard* [Read more](#)

BELGIUM: REMOVAL OF FLINTERSTAR OIL SPILL MAKING 'GOOD PROGRESS'



October 12 - The removal of the oil spill caused by the partially submerged ro-ro cargo vessel Flinterstar has made "good progress", according to an update by the ship's owner Flinter.

In an update on Sunday, Flinter said the removal of heavy fuel oil from the undamaged and relatively easily accessible oil tanks should be completed by yesterday.

Oil leaked into the waters off Belgian coast after the 8,850-dwt Flinterstar collided with the 210,000-cu m LNG tanker last Tuesday, leading to the Flinterstar taking on water while the LNG tanker Al Oraiq managed to sail back to safety. No seafarers were injured. Smit Salvage and Multtraship have been in charge of the recovery of all oil remaining onboard Flinterstar since last Thursday. *Seatrade Maritime* [Read more](#)

October 15 - Bad Weather Hampers 'Flinterstar' Salvage Off Belgium

Oil removal operations from the wrecked Flinterstar off the coast of Belgium were halted for a third straight day Thursday due to weather. Dutch ship owner Flinter reports that high winds and an unfavorable sea state has prevented divers from entering the water since Tuesday morning. *gCaptain* [Read more](#)

NORWAY OPENS PROBE INTO NORTH SEA SPILL

October 12 - A Norwegian safety regulator said it would open an investigation into the oil spill reported last week in the North Sea. Norwegian energy company Statoil reported a release of about 250 barrels of oil during the transfer of products to the oil tanker, Hilda Knutsen. Loading of oil from the Statfjord A platform was halted after a sheen was reported, through work at the platform itself continued without interruption. *UPI.com* [Read more](#)

Note from Editor – My searches last week didn't turn up any major spills – marine, river, pipeline, rail incidents, etc. – and no one sent me any reports either. However, just as many incidents as usual involving road tankers, fuel stations, static tanks, etc. as you will find out if you're a reader of Don Johnston's *Newsy Stuff* newsletter. Don does a great job in reporting these spills and I don't aim to compete with him. "*Newsy Stuff*" is circulated free of charge every few days to members of the DG & Hazmat Group and each issue contains around 20 pages of incident reports and other mainly downstream related news. To find out more about joining DG & Hazmat Group and subscribing to "*Newsy Stuff*", visit - <http://groups.yahoo.com/neo/groups/DangerousGoods/info>

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

CANADA: OIL SANDS BOOM DRIES UP IN ALBERTA, TAKING THOUSANDS OF JOBS WITH IT

October 12 - At a camp for oil workers here, a collection of 16 three-story buildings that once housed 2,000 workers sits empty. A parking lot at a neighboring camp is now dotted with abandoned cars. With oil prices falling precipitously, capital-intensive projects rooted in the heavy crude mined from Alberta's oil sands are losing money, contributing to the loss of about 35,000 energy industry jobs across the province. "It really is tough right now," said Greg Stringham, the vice president for markets and oil sands at the Canadian Association of Petroleum Producers, a trade group that generally speaks for the industry in Alberta. *The New York Times* [Read more](#)

Other news reports from around the world (continued)

CANADA: HYDROGEN PEROXIDE INJECTED TO CLEAN UP BOWNESS GAS SPILL



Photo: Remediation and testing continues at the contaminated former Gas Plus site on Bowness Road Thursday, Oct. 15, 2015. Ted Rhodes / Calgary Herald

October 15 - Workers are injecting hydrogen peroxide beneath a Bowness neighbourhood as part of a provincial government effort to remediate the remnants of a massive spill five years ago from a nearby gas station.

The pilot project begun this week is part of an estimated \$4.3-million cleanup at the former Gas Plus outlet undertaken by the environment department and paid for by Alberta taxpayers after officials say the operator failed to quickly and effectively prevent the spread of toxic benzene and naphthalene in the soil under surrounding homes.

Calgary Herald [Read more](#)

CANADA: COULD CONTAMINATED LAND ACTUALLY BE GOOD FOR TREES

October 16 - The very act of tolerating some forms of soil pollution may give trees an advantage in the natural world, says University of Montreal plant biologists. Their findings were published this week in BMC Plant Biology.

High chemical tolerant plants can be used to rehabilitate land contaminated with heavy metals or petroleum by-products - some 30,000 such sites exist in Canada and 342,000 sites in Europe - through a process termed phytoremediation.

The research team compared the molecular response of willow trees growing in contaminated or non-contaminated soil and found that several plant genes were expressed differently between both treatments.

"The most fascinating result, however, comes from the fact that genetic information (RNA) from other organisms, such as fungi, bacteria and insects were also found to be expressed differentially in plant tissues. Notably, 99% of RNA from spider mites, a common plant pest, was in higher abundance in trees growing without contamination," explained Nicolas Brereton, co-first author of the study. *TerraDaily* [Read more](#)

CANADA: OPERATION RIVERBOAT PUTS EMERGENCY RESPONSE TO THE TEST



October 16 - It's Jeremy Dangel's job to be prepared for the worst case scenario. As manager of TransCanada's Emergency Preparedness and Response, Dangel and his team must be prepared to effectively respond to an incident of any kind on TransCanada's pipeline systems. The company's ability to respond was recently tested during a day-and-a-half-long exercise, dubbed "Operation Riverboat," that simulated an oil spill resulting from a third-party pipeline strike near water in Yankton, South Dakota. The operation included more than 100 participants from TransCanada, three regulators, four local governments, first responders and six contractors – not to mention members of TransCanada's board and Executive Leadership Team. Collaboration was more than just a good idea – it was critical to the operation. *TransCanada* [Read more](#)

CHINA, HONG KONG: OILEX AND HNS EXERCISE TEST HK'S MARINE POLLUTION RESPONSES

October 16 - Two annual marine pollution response joint exercises, this year code-named Oilex 2015 and the Maritime Hazardous and Noxious Substances (HNS) Exercise 2015, were held simultaneously this morning (October 16) at Junk Bay to test local responses in the event of pollution caused by oil spillage and HNS in Hong Kong waters.

During the exercises, response groups contained and cleaned up a mock spill situation that would have posed threats to the local environment and facilities. In the scenario used, a tanker collided with a container vessel. The tanker was found to be leaking fuel oil and later anchored in Junk Bay, while five containers loaded with ammonium nitrate fell from the container vessel into the sea, subsequently drifting into Junk Bay, and leaked ammonium nitrate.

In the wake of the simulated oil spill, oil combat teams used floating barrier booms to encircle the tanker while salvage teams transferred the fuel oil and stopped up the leakage. *7thSpace.com* [Read more](#)

DJIBOUTI ACCEDES TO MULTIPLE IMO TREATIES



October 12 - Djibouti has today (12 October) acceded to a number of IMO treaties, including international conventions covering maritime search and rescue, and standards of training, certification and watchkeeping for seafarers. Mr. Ali Mirah Chehem Daoud, Directeur des Affaires Maritime Djibouti, met IMO's Frederick Kenney, Director, Legal Affairs and External Relations Division, to deposit the instruments of accession to six treaties and acceptance to annexes III, IV and V of the International Convention for the Prevention of Pollution from Ships (MARPOL).

The full list of treaties acceded to are as follows: International Convention on Tonnage Measurement of Ships, 1969; International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended; International Convention on Maritime Search and Rescue, 1979; International Convention on Salvage, 1989; Protocol on Preparedness, Response and Co-operation to Pollution Incidents by Hazardous and Noxious Substances, 2000;

International Convention on Civil Liability for Bunker Oil Pollution Damage, 2001; MARPOL Annex III; MARPOL Annex IV; MARPOL Annex V. *IMO Press Release*

SPAIN: US TO CLEAN UP NUCLEAR SPILL AFTER 50 YEARS

Photo: Three bombs fell near Palomares and though they never exploded, the soil was contaminated Bettmann/Corbis

October 13 - Nearly 50 years after one of the Cold War's most serious accidents, the US will finally clean up radioactive material scattered around a Spanish village when a nuclear bomber crashed.

Washington and Madrid are set to announce that the US will scrape up a 50,000 sq m patch of contaminated soil near the village of Palomares in southern Spain and bury it in a secure area in the desert near Las Vegas.

The Times [Read more](#)



USA: INTERAGENCY COMMITTEE APPROVES UPDATED OIL POLLUTION RESEARCH PLAN



October 7 - The [Interagency Coordinating Committee on Oil Pollution Research](#) unanimously approved the [Oil Pollution Research & Technology Plan](#) for FY2015-2021 at the committee's quarterly meeting Sept. 29, 2015 in Arlington, Virginia. The purpose of the plan is to provide current assessments of the nation's oil pollution research needs and priorities. This is the first update to the plan since 1997.

"The research needs focus on the tools and technologies employed by the Coast Guard On-Scene Coordinators to address oil spills in the marine environment," said Bill Vocke, who works for the Coast Guard's incident management and preparedness policy directorate at Coast Guard Headquarters and also serves as ICCOPR's executive director. "Addressing these priority needs will not only improve our capabilities to respond to spills but also improve prevention, preparedness, and injury assessment/restoration capabilities," said Vocke.

The FY 2015-2021 version of the plan includes two parts. Part One explains why oil pollution research is needed and the parties that are involved in research activities. It also presents the committee's Oil Pollution Research Categorization Framework for tracking research activities and successes. Part Two presents the committee's research priorities. It also explains the process that the committee used to identify present research gaps and priorities, noteworthy oil spill events, and the current state of oil pollution knowledge. The committee intends to update this plan every six years to reflect advancements in oil pollution technology and changing research needs. *BSEE* [Read more](#)

USA: MICHIGAN - LAWSUIT WANTS FEDS TO MANDATE OIL SPILL RESPONSE PLANS

October 9 - An environmental group sued the federal government Thursday, contending it gives pipeline owners and operators a free pass on developing legally required plans for dealing with oil spills into lakes, rivers and other inland waterways.

The National Wildlife Federation lawsuit accuses the U.S. Department of Transportation of failing for 20 years to issue regulations on crafting the spill strategies and of allowing companies to operate without them. The plans were ordered under the Oil Pollution Act, which was enacted in 1990 following the Exxon Valdez disaster, and were supposed to be finished by 1995.

"The Department of Transportation's failure to review or approve spill response plans is a huge oversight that has left communities and wildlife vulnerable to catastrophic spills," said Neil Kagan, senior counsel for the federation. *The Detroit News* [Read more](#)
[Thanks to Bill Hazel, MPC]

Other news reports from around the world (continued)

USA: APPEALS COURT RULES ON OPA 90 CLAIM REQUIREMENTS

October 13 - 90 Day Presentment Period Mandatory, but Documentation is Not - On October 8, 2015, the U.S. Court of Appeals for the Fifth Circuit held that an action for an oil pollution claim is barred unless it is first presented to the responsible party at least 90 days before the expiration of the three-year limitation period. The court also held that the Oil Pollution Act of 1990 does not impose any specific requirements for such claims beyond a statement of a request for a sum certain for compensation for damage or removal costs from an incident of oil pollution. *The Maritime Executive* [Read more](#)

USA: ALASKA WILDLIFE RECOVERED SINCE 1989 EXXON DISASTER



Photo: AFP/AFP/File - Mammal rescue center volunteers, help wash an oil-soaked sea otter on March 31, 1989 in Valdez, Alaska

October 15 - Key wildlife populations like otters that were devastated in the 1989 Exxon Valdez oil spill in Alaska have fully recovered, the US Justice Department said Thursday.

With especially sea otters and harlequin duck now recovered "to pre-spill population levels," the department said it had no grounds to exact more damages from the oil giant, now called ExxonMobil.

"Scientists have concluded that exposure to the subsurface oil is no longer biologically significant to these species," the department said in a statement.

"Accordingly, the governments have decided to withdraw their 2006 request to Exxon to fund bio-restoration of subsurface lingering oil patches," it said, referring to the federal and Alaska state authorities. *Yahoo* [Read more](#)

People in the news

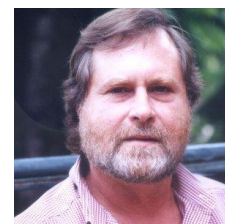
TWO WELL KNOWN FIGURES IN OUR INDUSTRY ARE LOOKING FORWARD TO RETIREMENT



This week your editor learned that Roald Wie of Framo in Norway and Anton Moldan of Sapia in South Africa are both planning to retire at the end of the year.

Roald Wie (pictured left) has been Sales Manager of Framo (formerly Frank Mohn A/S) for many years. The company is the manufacturer of Framo pumps and has its headquarters in Bergen, Norway.

Anton Moldan (pictured right) has been the Environmental Advisor to the South African Petroleum Industry Association for more than 20 years. He is also the Member of ISCO Council for South Africa.



ISCO news

DIVERSIFICATION ? – A QUESTION FOR SPILL RESPONSE CONTRACTORS

Over many years the frequency of spill events appears to have declined, thanks to improved training and prevention measures, heightened awareness of adverse consequences, including environmental damage, high cost of clean-up, severe financial penalties and bad publicity.

The need to reduce business dependence on unpredictable events and help ensure better income continuity led to the development of "retainer contracts". Under such arrangements response contractors promise potential polluters a guaranteed rapid response to spills in return for annual "retainers".

Maintaining a high level rapid response capability is not easy. Even with "retainer" income it can be a struggle if opportunities to earn spill response income do not arise with a reasonable frequency. In order to maintain a credible response capacity there really isn't an option to reduce costs if this means paying off experienced personnel, cutting back on training, reducing investment in equipment upgrading and other cost-cutting that can diminish performance.

In difficult financial times and with increased competition, many companies are struggling and levels of "retainer" income are reported to have been falling.

A dedicated team of well-motivated professionals working within a well-managed, well-equipped organisation, that possesses the special ethos associated with effective emergency response operations takes a long time to build and is a precious thing. Many companies are looking at possibilities for increased diversification as a possible route for survival and future growth. Members and other readers are invited to comment.



KYSTVERKET

NEW TECHNOLOGY REDUCES ENVIRONMENTAL IMPACT FROM OIL SPILLS

An article contributed by the Organisation of the Norwegian Coastal Administration.

The Norwegian Coastal Administration is an agency of the Norwegian Ministry of Transport and Communications responsible for services related to maritime safety, maritime infrastructure, transport planning and efficiency, and emergency response to acute pollution.



The new mapping solution provides registration in the field through a mobile application which immediately makes the data accessible for the operation managers. A common operation picture is established in real time. Illustration: NCA/M.Henriksen

The magnitude of the environmental impact from an oil spill occurrence is dependent on how quickly the clean-up begins. In order to streamline this process, the Norwegian Coastal Administration (NCA) has developed a new mapping solution for oil recovery operations.

Past: Notification of oil spill from stranded ships. Registration starts in the field with pen and paper and is then further processed by manually logging the data in map solution. This will at best be done the same evening, which in hand makes for a time-consuming process before a common operation picture is established.

Present: Notification of oil spill from stranded ships. The registration is done in the field through a mobile application which immediately makes the data accessible for the operation managers. A common operation picture is established in real time.

The time it takes from an oil spill occurs until the recovery process begins has been substantially minimized due to the development of the map-solution for preparedness. Project Manager and Senior Advisor at NCA, Simen Slotta, explain how oil spill recovery along the shore now can be mapped and managed more efficiently thanks to the new map-technology. The development project has been led by the NCA in close cooperation with the Norwegian Clean Seas Association for Operating Companies (NOFO).

“This new technology enables us to act faster, more efficient and with higher accuracy. It makes it possible to efficiently utilize the recovery resources in both tactical and operational management. In addition, we can reduce the environmental impact”.

Facts

- Web-map-solution based on the [Adaptive](#) technology
- Field-solution based on the Android-application [Norgeskart](#)
- Registry in field based on [SCAT-methodic](#)
- Access for offline use with local storage of background maps and data
- Unified registration in field with high precision - data snapped to the coastline
- Records of oil surcharges, images and video captured in the field synchronizes to server.



By introducing standardized objects and registration-forms that attaches to a detailed coastal contour, the new map-solution provides consistent and accurate data. Once the data is synchronized with the server, the information is accessible for all parties involved through the map-solution.

Facilitates and gives an overview

Senior Advisor Rune Bergstrøm at NCA has great expectations for the new technological solution. He believes it will facilitate the work of an oil spill response, help in planning the recovery, and make it easier to calculate the cost of the recovery.

“This will enable us to better prioritize when planning where to focus our efforts. At the same time it will give us a more accurate picture of how much and how many meters of shoreline is contaminated. This will give us the necessary information for allocating our resources and estimating costs for recovery operations”, said Bergstrøm.

Faster communication-lines

He explains what the new map-based preparedness-solution means in practice for those who will take action when an oil spill occurs.

“We get new way of looking at the common operation picture if we were to have handled an operation the size of the one that came when Full City ran aground in 2009”, said Slotta.

He explains that based on lessons learned from major incidents of acute pollution in 2009 and 2011, NCA would look at what could be done to improve the tools that already existed. They saw that the map-solutions that were adopted during Full City in 2009, ‘Kystinfo’, provided an opportunity to digitize and report in a better way. One of the positive experiences was easier cooperation and communication between the parties involved.

Saw potential for development

“The challenge was that the necessary components to facilitate a field-solution were not in place. We still had to make notes on paper, at best at night. There was a delay between what was observed in the field and what was added to the solution. Additionally, the solution was not designed to register accurate recordings, but it did give a rough overview and was certainly helpful in the campaign, said Slotta. Additionally, the solution was not designed to register accurate recordings, but it did give a rough overview and was certainly helpful in the campaign”, said Slotta.

- Building common operation picture almost in real time
- Utilized agile development methodology - [Scrum](#)
- Partnership project between NCA and NOFO – see [the project organization \(norwegian\)](#)

The illustrations below show how an oil spill response was conducted in the past, while the last drawing shows the current desired line of events if an occurrence happened after the implementation of the new technology – the data is recorded in the map-solution, then synchronized to a server, every party involved can quickly get the overview and allocate resources in near real time:

BEFORE
5 steps (or more)



Contributed article (continued)

NCA saw the potential in developing a field-solution. After first checking if other nations had developed something similar, the innovation efforts to develop the map-solution began. This was a collaborative effort between NCA and NOFO.

"We wanted to be able to collect data in real time from the field, and get it quickly over to those who coordinate response and recovery", said the Senior Advisor.

Efficiency and precision

The new tools would consist of two main components with a clear goal: to quickly build common operation picture for the parties involved, be available for tablets and mobile - and eventually reduce the environmental impact of future oil spills.

The tools will provide greater efficiency and precision in the execution of oil-spill response and recovery operations.

"With 'Strandappen', which we call the mobile field solution, you can collect data in the field, take pictures and video, view oil surcharges, and quickly communicate this to the map-solution", said Slotta.

User-involvement

A test-team of experienced people from both the Godafoss- and the Full City-operation has ensured broad involvement from the users during this development process.

"NCA has a good spatial data infrastructure. In the development of this map solution, we got back what we put in; in terms of the resources we've invested. The only thing that remains is the implementation of the solutions", said Slotta.

The big test of the new technology is to take place this fall, when they are intended to be used in a major emergency exercise. Slotta also see growth potential in the new solutions.

"I imagine that we can integrate more seamless data and services from aircraft and satellite in the map solution", says the project leader.

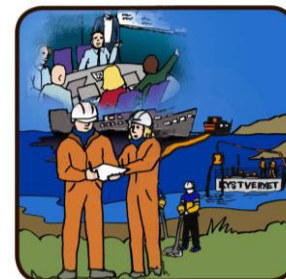
NCA in front

NCA has already received feedback that the so-called 'Strandapp' is impressive. This was received when the US Coast Guards signed cooperation on oil spill operations with NCA in the autumn of 2014:

"The meeting with the US Coast Guard revealed that Coastal Administration in Norway has experience with, and knowledge about topics that partners will reap great benefit from accessing. It also turned out that the NCA has come furthest digitally, in relation to the development of a field-application that NCA now has developed" said preparedness director Johan Marius Ly.



**With Web-Map-Solution:
All steps simultaneously**



The project group has from the NCA consisted of Stig Nordaas, Silje Berger and Hilde Dolva, while from NOFO Karl Henrik Bryne, Torger Reve and Kristin K. Husebye have contributed.

Slotta highlights a committed project-group as a very important factor in development.

"Without their commitment and practical-oriented customer focus, the newly developed solutions would not have been this good", said Simen Slotta.

*Illustrations:
Kystverket/Marianne Henriksen*

Publications

RELEASE OF 2015 WORLD'S WORST POLLUTION PROBLEMS REPORT FROM PURE EARTH AND GREEN CROSS SWITZERLAND

The release of the tenth report in *The World's Worst Pollution Problems* series - "*The New Top Six Toxic Threats: A Priority List for Remediation*" - issued by the nonprofit [Pure Earth](#) and [Green Cross Switzerland](#). The new report updates the top six toxic threats from 2010, with some surprising changes in 2015. The report spotlights six pollutants—common around the globe—that pose an outsized and preventable threat to human health.. *Business Wire* [Read more](#) [Thanks to Walter Putman of MPC]

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

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[Celtic Biogenie enGlobe Newsletter](#)
[CROIERG Enews](#)
[EMSA Newsletter](#)

News from the Australian Maritime Safety Authority
News and commentary on HSE issues from George Holliday
Sam Ignarski's Ezine on Marine & Transport Matters
News from Cedre in Brittany, France
Latest Remediation and related technology news
Canberra & Regions Oil Industry Emergency Response Group
News from the European Maritime Safety Agency

October 2015 issue
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Environmental Technology Online	Environmental Monitoring, Testing & Analysis	October 2015 issue
IMO News Magazine	News from the International Maritime Organization	No 3, 2015
IMO Publishing News	New and forthcoming IMO publications	October 2015
Intertanko Weekly News	International news for the oil tanker community	No 42 2015
IPIECA eNews	Int'l Petroleum Industry Environmental Conservation Assoc'n	February 12 issue
JOIFF "The Catalyst"	Int'l Organisation for Industrial Hazard Management	October 2015 issue
MOIG Newsletter	News from the Mediterranean Oil Industry Group	Most recent Issue
NOAA update	Oil spill response news from NOAA OR&R	April 2015
OCIMF Newsletter	News from the Oil Companies International Marine Forum	Sept. 2015 issue
Pollution Online Newsletter	News for prevention & control professionals	October 14 issue
Sea Alarm Foundation Newsletter	Oiled wildlife Preparedness and Response news from Sea Alarm	Spring 2015 issue
SAC News	Oil spill related and other news from Alaska	October 13 issue 2015
Technology Innovation News Survey	From US EPA - Contaminated site decontamination	August 16-31 2015
The Essential Hazmat News	Alliance of Hazardous Materials Professionals	August 24 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	October 1 2015 issue
USA EPA Tech News & Trends	Contaminated site clean-up information	Summer 2015 issue
WMU Newsletter	News from the World Maritime University	October 2015 issue

Events

UPCOMING EVENTS SUMMARY

COUNTRY	2015	TITLE OF EVENT	LOCATION
For more information click on Title of Event			
UK	Oct.19-23	IOPC Funds Meetings	IMO, London
KOREA	Oct 20-22	9th World Ocean Forum	Busan
FRANCE	Oct. 26-30	Safer Seas Conference	Brest
USA	Oct 29	NAMEPA Conference & Awards Dinner	New York
USA	Oct. 27	IPIECA JIP Seminar	Houston
UK	Nov. 5	IPIECA JIP Seminar	London
USA	Nov. 10-12	Clean Gulf Conference & Exhibition	New Orleans
TURKEY	Nov. 17-19	Regional Oil Spill Response Workshop	Adana City
BELGIUM	Nov. 18-19	PEFTEC Exhibition & Seminars	Antwerp
BELGIUM	Dec. 7	MSP & Marine Env. Conference	Brussels
UK	Dec. 7-11	Salvage & Wreck Removal Conference	London
UK, N. IRELAND	Dec. 15	ISAA Meeting and Christmas Luncheon	Hillsborough
2016			
USA	Jan. 4-6	No Spills Annual Conference	Acme, Michigan
SAUDI ARABIA	Feb 22-24	PetroEnvironment 2016	Dammam
AUSTRALIA	May 2-6	Spillcon 2016	Perth, WA
To request posting of an event of interest to the Spill Response Community please send details to the Editor			

Training

SINGAPORE & BELGIUM - SEA ALARM: OILED WILDLIFE RESPONSE PLANNING COURSES

Oil Spill Response training course on integrating wildlife response during an oil spill, developed in conjunction with Sea Alarm and other oiled wildlife response specialists.

9 November 2015 to 10 November 2015, Loyang, Singapore, in cooperation with Massey University's Wildbase Oil Response programme.

17 November 2015 to 18 November 2015, Ostende, Belgium, in cooperation with the Wildlife Rescue Centre Ostende, a leading European oiled wildlife response organisation.

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