



N° 316 E – News from October 2022

Emergency response

Cedre's emergency response team received numerous enquiries throughout October, in relation to several alerts, in particular from the **Cherbourg Maritime Prefecture** for a barge (with 1000 litres of diesel onboard) at risk of sinking off Dielette, from **MRCC La Garde** for drift forecasts and insight on sheen observed, by AEM Toulon for information on decarbonation sludge, as well as for several confirmed pollution incidents, from **MRCC Fort-de-France** for oil pollution in a fishing area south of Martinique, from **DREAL PACA** for a spill of decarbonation water into the Anse d'Auguette (300 m³/h for several hours) then for a leak of sodium hydroxide (15 m³) again in the Anse d'Auguette, from **DDTM 44** for pollution observed in Turballe fishing port which generated 3000 m² of sheen and which was confirmed to be weathered diesel following analysis in Cedre's laboratory. For inland waters, our emergency team was contacted by the Seine-et-Marne fire brigade (**SDIS 77**) in relation to a leak of home heating oil, by the Oise fire brigade (**SDIS 60**) following a spill of fertiliser and waste water in the river Thérain, by the French Biodiversity Agency's (**OFB**) Côte d'Or division as a follow-up to a spill of ammonium sulphate in the Armançon river in May. Cedre also took part in several exercises: **Birvideaux 2022** organised by the **Maritime Prefecture for the Atlantic** and the **Ragnarok 2022** exercise. **MAR-ICE** was also activated twice, first during the **RAMOGEPOL** exercise whose scenario involved a caustic soda spill near the Italian coast, and secondly during an exercise organised by the Slovenian civil protection based on a methanol spill. Cedre's emergency team was also called upon as part of an **ICE** exercise organised by Hungary for a scenario involving benzene.

Major civil protection exercise DOMINO 2022

A cold debriefing from the **DOMINO 2022** exercise was held on 12 October at the **École Nationale Supérieure des Officiers de Sapeurs-Pompiers (ENSOSP)** in Aix-en-Provence. As a reminder, the **DOMINO** exercise involved multiple challenges: activation of the European Union's civil protection mechanism and hosting of European modules by France, interoperability and information exchange in a degraded operational context. Designed based on industrial risks with knock-on effects, the exercise included a set of scenarios involving the pollution of maritime and port waters. Cedre was involved in running the exercise and in the operational phases. The conclusions of the exercise were presented during this very useful feedback session in which the need to improve the onshore-offshore interface was emphasised.

MOIG regional workshop in Croatia

The regional workshop organised by the Mediterranean Oil Industry Group (MOIG) was held from 25 to 27 October in Opatija, Croatia. This event focused on improving the response to oil spills in the Mediterranean and in particular in the Adriatic Sea and was attended by 40 participants from Tunisian and Croatian ministries, oil and gas industries, universities and service companies. The programme included conferences on a range of topics: contingency planning, regional initiatives and activities in the Adriatic Sea and the Mediterranean, spill preparedness and response management, and oil spill training. As a technical partner of MOIG, Cedre presented its involvement in several European projects centred around pollution response preparedness in the Mediterranean (**POSOW**, **WEST MOPoCo**, **IRA-MAR**), its work on biofuels and new propulsion energies, as well as its experience acquired during numerous missions in France and abroad. On the third day, the participants visited the Omišalj terminal operated by the Croatian company **JANAF** on the island of Krk.

ITAC Forum and IOSSC 2022

The **ITAC (Industry Technical Advisory Committee)** Forum 2022 was held on 4 October in Halifax (Nova Scotia, Canada). This event, organised by **OSRL**, was the chance for its members and partners to meet and discuss various topics such as the effects of oil, whether dispersed or not, on a tropical coastal ecosystem (**TROPICS** experiment), offshore response, the advantages and operational limits of containment and mechanical recovery operations...

In short

Dates for the diary

► 29 November 2022: **Final conference of the OceanWise** project in Lisbon and online at 2 pm UTC. Presentation of the final results of this project which was launched in 2018 to propose measures to reduce expanded and extruded polystyrene in the marine environment. Register [here](#).

Training courses

► 14-17 November: aerial observation training course, at Cedre
► 28 November to 2 December: shoreline pollution crisis management training course, at Cedre

Publications

► **ECOCAP** project: **3rd newsletter** now available

This year's edition took place during the **International Oil Spill Science Conference (IOSSC) 2022**, jointly organised by **Fisheries and Oceans Canada, Concordia University** and ITAC. From 5 to 7 October, the results of research projects conducted under the Multi-Partner Research Initiative (MPRI) were presented. Cedre gave two presentations, one on the fate of oil droplets dispersed subsea, and the other on the measurement of the evaporation kinetics of volatile chemicals in order to improve the accuracy of input data for predictive numerical models.

An innovative project for ports

The SIMAGAZ camera, developed by **ONERA** and used during the offshore trial conducted for the **MANIFESTS project**, was selected among the 8 projects presented at the innovation session of the 12th edition of **Assises Port du futur**. During this event held in Lorient (Morbihan) on 4 and 5 October, an engineer from Cedre presented the potential of this video camera for detecting gas plumes and identifying the corresponding chemical. The judges praised the project for its quality and its innovative approach to safety and environmental protection in ports.

Presentation of Cedre to the chemical industry

Two presentations of Cedre's activities to **France-Chimie** were organised in October, the first on 6 October during an online meeting with a regional delegation (Auvergne-Rhône-Alpes), then on 12 October in Paris during the annual national meeting of the Transport Safety Committee. The diversity of Cedre's activities and the technical assistance which can be provided to the chemical industry, in "peacetime" or in an emergency, were highlighted. Certain industrial firms showed interest in possible collaboration.

New propulsion fuels

On 13 October, an engineer from Cedre visited the **GTT** premises in Saint Rémy-Lès-Chevreuses. The meeting provided new insights into the technologies used to transport gases in liquid form, both as cargo and as propulsion fuel. Thanks to Cedre's proactive approach, it is able to effectively disseminate information during training courses, to liaise between incident management units and specialised technical experts in the event of an incident, and finally to identify research projects to understand the behaviour of gases in the event of a spill.

A promising meeting with a French battery manufacturer

On 24 October, Cedre met with battery manufacturer **Blue Solutions**, part of the Bolloré group, in Ergué-Gabéric (Finistère). Two representatives of Blue Solutions gave a general presentation of the solid-state batteries developed and manufactured at the site in Finistère. The very interesting discussions helped us to better understand some of the risks inherent to batteries and together to identify collaboration opportunities, in particular to conduct experimental trials.

Visit to IFPEN laboratories in Rueil-Malmaison

Following on from the discussions initiated several months ago, Cedre visited the **IFPEN** site in Rueil-Malmaison on 14 October for a tour of the laboratories and to discuss the prospects for collaboration on plastics analysis. This meeting was the opportunity to pinpoint the synergies that could be developed between the two institutes in order to improve knowledge on the fate and impact of litter, particularly plastics, in the environment and thus support decision-making.

IMO 2 training in the Gulf of Guinea

As part of the **WeCAPS** project which aims to provide technical assistance and strengthen the safety and security of port infrastructures in West and Central Africa, the **Interregional Maritime Security Institute (ISMI)** based in Côte d'Ivoire, in partnership with the European Commission, organised a training course on oil spill response at sea and on the shoreline in Abidjan from 10 to 14 October at **ARSTM** (Académie Régionale des Sciences et Techniques de la Mer) and **PAA (Port Autonome d'Abidjan)**. This theory and practical training course, which complied with IMO 2 standards, was run by two trainers from Cedre, for some twenty port officers, representing 11 countries in the Gulf of Guinea. A practical exercise was organised in the port of Abidjan. During this simulation, the trainees discovered the different phases of a spill response strategy: situation analysis with identification of the pollutant and impacts (evaluation); definition of a response strategy; implementation of a complete containment, recovery and storage chain.

Practical training for civil protection personnel

In order to reinforce the skills of their personnel in the response to major oil spills on land and in water bodies, the **French civil protection units (UIISC)** of Corte, Nogent-le-Rotrou and Brignolles trained twenty of their representatives at Cedre from 24 to 27 October. This course was designed to provide concrete and practical knowledge of response strategies, techniques and equipment (use of containment and recovery equipment, clean-up techniques). It was also an opportunity for numerous discussions and sharing of experience with these agents who are involved in managing major risks, protecting people, and safeguarding property and the environment, both in France and abroad.

Training course for ITOPF

From 3 to 6 October, we had the pleasure of welcoming 10 representatives of **ITOPF**, including its director, for 4 days of practical training. After a first day dedicated to technical discussions on several of our respective projects as well as Cedre's experimental tools, the trainees were immersed in various practical exercises conducted in the natural environment and at Cedre's technical facilities. The trainees tackled a range of tasks: building and installing custom-made barriers, deploying floating booms, recovering pollutants from the water surface and implementing shoreline clean-up. The training ended with a practical response exercise involving a spill of light oil, which the trainees were tasked with

managing completely independently. This session followed on from a previous course held in July for 10 other ITOFF staff members.

Launch of a study on the origin of litter on the shores of marine nature parks

21 October marked the launch of a new project aimed at identifying the origin of macro-litter washed up on the shores of Marine Nature Parks. This two-year project, conducted by Cedre on behalf of the French Biodiversity Agency (OFB), will involve four marine nature parks: Iroise, Gironde Estuary and Pertuis Sea, Arcachon Basin and Mayotte. The project aims to test a probabilistic approach, developed through the OSPAR work, which involves attributing a source to litter found on the shoreline. The objective will be to test the representativeness and relevance of the approach and to improve knowledge of the diversity of litter and its origins within these marine nature parks.

We need you! Online survey on floating litter in ports

Within the framework of the European project [CleanAtlantic](#), a survey is being carried out on floating litter in ports (commercial ports, passenger ports, marinas, military ports). The aim of this survey, which is being rolled out across the five Atlantic Area countries, namely Ireland, the United Kingdom, France, Spain and Portugal, is to inventory the procedures and techniques used to recover floating litter in port waters and to provide, as far as possible, recommendations on good clean-up practices. This survey will help to share experiences within the Atlantic Area in terms of good port clean-up practices and provide material for Action 54 of the [OSPAR Convention's](#) Regional Action Plan for the prevention and management of marine litter. [Click here to take the survey](#).

Discussions on the use of ammonia

The use of ammonia as propulsion fuel for large ships is becoming established, raising questions about the associated risks. How will ammonia behave if spilled at sea? And what are the risks for on-site operators or the potential environmental impacts? On 20 October, engineers from Cedre discussed these issues with [Yara Clean Ammonia](#), a leading ammonia distributor.

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