



Celebrating Port Revel's 50th anniversary

Artelia, the leading French independent engineering firm, is proud to celebrate the 50th anniversary of the creation of Port Revel, its shiphandling training centre specialising in supertankers, LNG carriers and cruise ships.

On this occasion, an open day where visitors will be able to attend shiphandling demonstrations is organised on 13 July. It will bring together many players and experts in the field of shiphandling.

Hydraulic expertise promoting safe maritime navigation

Created in 1967 as a branch of Sogreah's Hydraulics Laboratory, which is located in the Grenoble area, Port Revel is the result of world-renowned know-how in the field of hydraulics and navigation tests using scale models developed on behalf of Esso in the sixties. Fifty years on, the concept of manned scale model ships has never ceased to demonstrate its efficiency for achieving safe maritime navigation.

Since its creation, 7000 ship captains and pilots from the most prestigious ports have come to follow training courses on all the different types of manoeuvres, berthing, getting underway, crossing or overtaking other ships in canals, in a very wide range of conditions, involving cross-currents, wind, rudder failure, etc.

Port Revel is an extraordinary facility in several respects: situated on a 5 ha lake close to Grenoble, it consists of a physical reproduction of the most dangerous sites for navigation (Cape Horn, etc.), and features a fleet of eleven 1:25 scale models of ships, five tugs, a team of instructors and top-level tug pilots, in a unique training setting. Port Revel has no equivalent in the world in terms of its size and technical installations.

In addition, the facility features digital navigation simulations with a view to confirming overall layouts of new ports and port extensions designed by Artelia engineering teams.

An exceptional site equipped with state-of-the-art installations

Port Revel is the largest and most technical lake-based shiphandling training centre in the world. Indeed, it is equipped with a wave generator that can create different types of waves, about forty powerful current generators (up to 3 knots) and wind generators (up to 30 knots). Cutting edge electronic equipment is available to record the trajectories of models during the training sessions with pinpoint precision.

The technical staff at the Port Revel centre has expert knowledge in the field of ship construction and maintenance, the ships being serviced constantly. Each installation is optimised to offer top level technical courses to the trainees. The staff's continuous presence means Port Revel provides opportunities for discussing various issues and drawing up summarising overviews.

Permanent innovation dynamics to cater for the latest issues at stake

In order to meet its clients' needs as closely as possible, the Port Revel Centre has developed its service offering and focuses on partnerships: special sessions and installations are designed in close collaboration with the trainees, a good example being the models of escort tugboats developed specifically for pilots in San Francisco.

Hence, the team at Port Revel is in direct contact with the maritime sector and follows the technical changes it is undergoing. In particular, it benefits from the projects handled by the Hydraulics Laboratory, which develops physical scale models to determine the behaviour of moored ships subjected to hydrodynamic forces, in conditions that enable numerical models to be validated. This unique expertise allows the staff to innovate boldly to prepare for tomorrow's world and hence contribute to safe navigation around the world.

For more information, discover the brochure issued to celebrate the 50th anniversary of Port Revel on Artelia's website:

https://arteliagroup.com/EauEnvironnement/_layouts/15/DocIdRedir.aspx?ID=MYART-108-380

About Artelia:

Artelia is an international, multidisciplinary group specialising in consultancy, engineering and project management in the construction, infrastructure, water and environment sectors. It currently has a staff of 4,000 and generated turnover of €439 million in 2016, and thus ranks as one of France's foremost firms in the sector. The group has operations in more than 35 countries in Europe, Africa, the Middle East, Asia and South America. Artelia is more than 97% owned by its managers and employees

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