

# Five generations of instruments in service – most after decades of operation – at the Public Laboratory for Trials and Studies LPEE, Morocco

LPEE (Laboratoire Publique des Essais et des Etudes/Public Laboratory for Trials and Studies) is a semi-public organization in Morocco that for the past 60 years has provided services in various civil engineering, building, environment, hydraulic and related projects. The Hydraulic Studies Center in Casablanca just took delivery of two Aanderaa SeaGuardII multi-parameter (Currents, Salinity, Temperature, Wave and Tide) instruments with bottom frames that will serve in upcoming coastal construction projects. LPEE has five generations of instruments and sensors from Aanderaa in their instrument fleet that are functioning reliably after decades of operation. The only instruments that are not in service any more are the 40+-year-old bottom pressure recorders that register data on magnetic tapes. Recently a hands-on training was organized for Moroccan SeaGuardII users. After setting up the instruments they were test-deployed in one of the hydraulic dam facilities at LPEE.



Fig. 1: SeaGuardII instrument tested in one of the hydraulic dam models



Fig. 2: Six generations of Aanderaa instruments at LPEE. From left to right: New SeaGuardII acoustic profiler/CTD/Wave instrument, SeaGuard Wave and Tide recorder (2007), Recording Current Meter 9 MkII (2000), Recording Current Meter 9 MkI (1996), Water Level Recorder 7 (1987), and Bottom pressure recorder with magnetic tape from the early 1980s. All instruments, but the last one are still in service.