

Vertical Array for Acoustic Communications



Chelsea Technologies Group, UK, has delivered a novel acoustic array to the Norwegian University of Science and Technology (NTNU). The six metre long, oil-filled array, houses six omni-directional identical hydrophones. The array is designed to be suspended from a small boat or buoy to depths of 100 metres.

Dr Zhang Guosong of NTNU commissioned Chelsea to build the custom hydrophone array to conduct novel underwater acoustic experiments in the Trondheim fjord, Norway. Dr Guosong and his team are looking to exploit spatial diversity in order to achieve stable communications in a time-varying underwater acoustic channel. Chelsea has previously

supplied a range of acoustic transducers and hydrophones to NTNU.

Chelsea Technologies is on stand T8 during Ocean Business. Visiting the stand is an incentive to meet their new acoustics specialist, Kimberley Walrond.