

**ACOUSTICS2008/494**  
**NURC/SACLANTCEN contributions to sonar signal processing**  
**and ASW systems research**

Douglas Abraham  
CausaSci LLC, PO Box 5892, Arlington, VA 22205, USA

The NATO Undersea Research Centre (NURC) was established in 1959 as the SACLANT ASW Research Centre and tasked with providing scientific research and technical analysis in the area of antisubmarine warfare (ASW) to NATO nations. This presentation will review NURC's contributions to sonar acoustic research in the areas of sonar signal processing and ASW systems. These contributions span at-sea testing and experimentation of novel sonar system concepts to algorithm development and theoretical advances in sonar signal processing. The diversity of expertise across fields such as oceanography, acoustics, signal processing, systems, and operations research brought by international scientists into the cauldron of a small, focused research centre with world-class technicians, engineers, and at-sea capabilities produced innovative, interdisciplinary research.

[Supported by the Office of Naval Research Code 321US under contract number N0001407C0092]