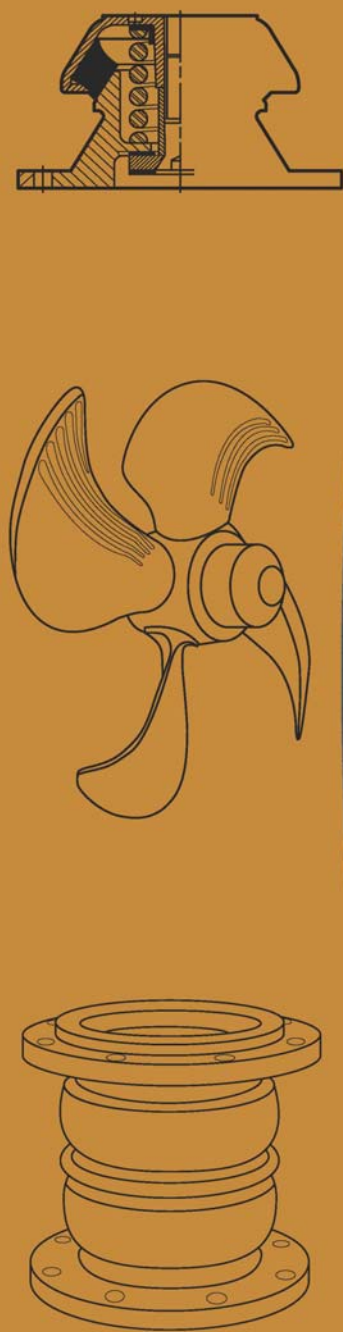
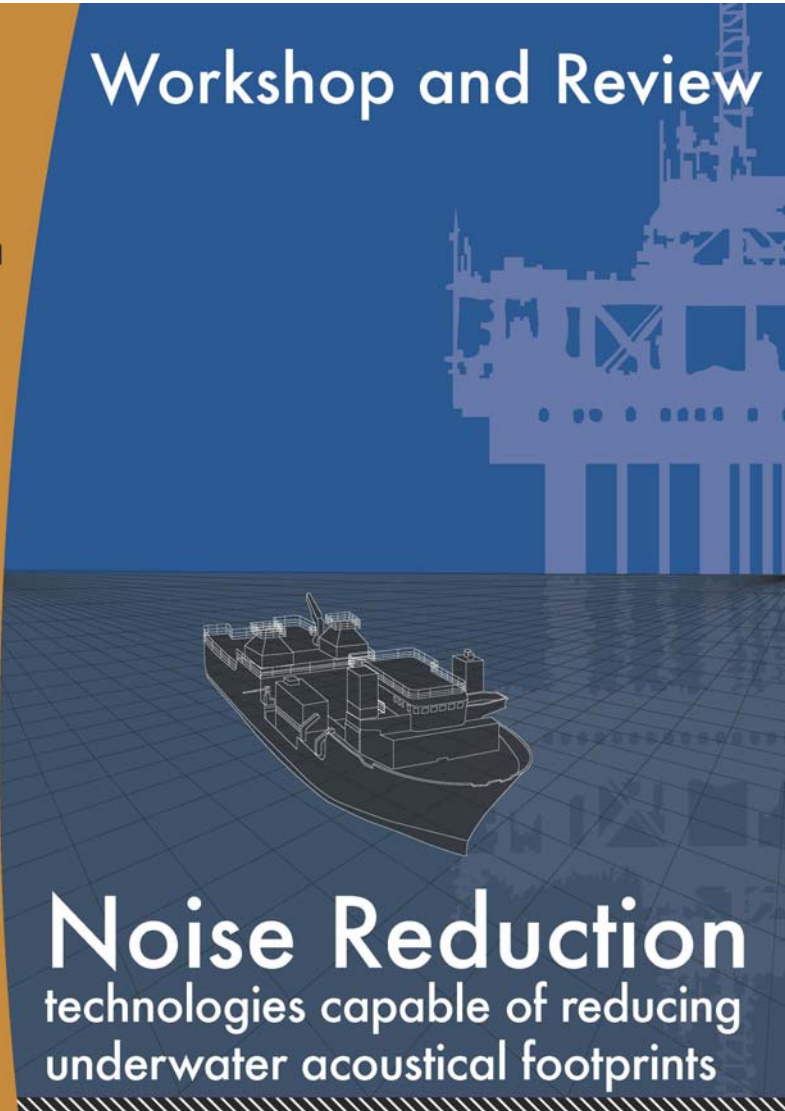


SELECTED PROJECT PORTFOLIO





# Workshop and Review



# Noise Reduction

technologies capable of reducing  
underwater acoustical footprints

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Boston Marriott Burlington  
One Mall Road (Rt 128 & 3A)  
Burlington, Massachusetts 01803 USA  
June 4 - 5, 2007

**Project:** Identification of Current and Future Methods for Underwater Sound Reduction from all Oil and Gas Industry Activities.

**Client:** Joint Industry Programme on E&P Sound and Marine Life (organized under the International Association of Oil and Gas Producers).

**Services Provided:**

- Performed review of existing literature, reports, etc. to identify treatments and techniques for reducing underwater sound from oil and gas industry activities that produce underwater sound.
- Sources of sound include air guns (seismic exploration), pile driving, explosives, vessels (including propeller and machinery noise), floating and fixed production and drilling platforms, dredging, post trenching, aircraft, hovercraft, and pipelines.
- Final deliverable was a 193-page report detailing findings. Report contains an appendix with annotated tables summarizing possible treatments for various sources. Tables provide 'quick access' information such as approximate effectiveness, costs, pros and cons. Additional details of use and non-acoustical considerations are also provided.
- A discussion of how sources generate sound and pertinent propagation paths is also provided in report.
- A 2-day workshop was organized at mid-project to discuss findings so far. Workshop was attended by JIP/OGP representatives and Government agency representatives (MMS, NOAA, ACoE) as well as members of industry and academia. Presentations were given by industry members with pertinent noise control technologies as well as NCE.
- A copy of the report is available at the JIP website, [http://www.soundandmarinelife.org/Site/Products/NCE07-001\\_TreatmentsForUnderwaterSoundFromOil.pdf](http://www.soundandmarinelife.org/Site/Products/NCE07-001_TreatmentsForUnderwaterSoundFromOil.pdf).