ID: Type: **Oral**

Technology to Extend Life and Utility of Hydroacoustic Systems

The existing infrastructure of the six Hydroacoustic Systems spans remote locations of the world. The first of these systems at Diego Garcia is reaching its 20 year life and consideration to the maintenance and replacement of the systems is ongoing. This presentation will discuss opportunities to incorporate advancements in active junction box design, facilitating the inclusion of wet-mate underwater fiber optic connections in any future upgrade, replacement, or repair of these systems. Recent analysis of the in-water triplet has shown that these units are likely to last much longer than the 20 year life objective. During any future maintenance or repair, the inclusion of a junction box with wet-mate fiber optic connectors could help to improve the serviceability of the system and could provide opportunity to expand the system to new co-located science research.

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Track Classification: 1. Technological advancements in marine engineering pertinent to the sustainability and improvement of the hydroacoustic component of CTBT's International Monitoring System (IMS)