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# **A Miniaturized Long-life, Low-frequency Acoustic Transmitter for Fish Tracking in Marine Environment**

**CRADA 447**

**February 2021**

*Huidong Li*

**Advanced Telemetry Systems**

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Abstract

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Huidong Li

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the U.S. Department of Energy  
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## Abstract

Advance state-of-art technologies for tracking marine mammals, fish, sea turtles, and other protected species, based on acoustic telemetry. Objectives include: (1) develop a new acoustic transmitter that has a greatly improved detection range and service life while being significantly smaller and lighter than the existing commercial counterparts; and (2) reach a TRL of 5 so the technology is ready for organizations interested in small- or medium-scale field trials.

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