

# Abstracts

## Full Scale Hybrid Lidar-Radar System

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*L. Mullen and P.R. Herczfeld. "Full Scale Hybrid Lidar-Radar System." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1559-1562.*

This paper concerns a novel hybrid lidar-radar system for underwater surveillance. Simulations and laboratory measurements based on the hybrid detection scheme revealed a 17 dB suppression of the water backscatter signal (clutter) and corresponding target contrast enhancement. These results led to the design, implementation and testing of a full scale lidar-radar system. Details of this system and results obtained in the ocean experiment are presented.

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