

Department of Ocean and Resources Engineering
Seminar

**UNDERWATER POSITIONING IN THE PRESENCE OF
UNKNOWN CURRENTS BASED ON TOA
MEASUREMENTS FROM A SINGLE BEACON**

By

Mr. Thomas Casey

Chief Engineer for MIKEL Inc.

Fall River, MA

Wednesday, April 9, 2008, Holmes Hall 243
3:00-3:30 pm Coffee Hour
3:30-4:30 pm Seminar

Please join us for the coffee hour near the seminar venue a half hour before the seminar, 3:00 – 3:30 pm

Abstract

The presentation describes the approach and algorithms used to provide a position update to an undersea platforms navigation system using synchronized time of arrival measurements from a single beacon, received on a single hydrophone. The presentation will show the results of an at-sea exercise using a U. S. Submarine conducted in local Hawaiian waters. This work is sponsored by the state of Hawaii through the Center of Excellence for Research in Ocean Sciences (CEROS) through a cooperative agreement with the Defense Advanced Research Projects Agency.

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