

Double Feature

ORE 783

Capstone Design Projects

MSB 114

Wednesday, December 10

3:00-5:00 pm Seminar

Addressing the Erosion Concerns at Haleiwa Beach Park

Abstract

This capstone design project encompasses the efforts to control the beach erosion and to protect the shore facilities at Haleiwa Beach Park on the North Shore of Oahu. We will discuss the historical changes along the Haleiwa Beach Park, model existing conditions and offer multiple engineering solutions to counter the erosion and to protect the shore facilities.

Evaluating the Power Output of an OTEC Pilot Plant off Southwest Oahu

Abstract

This capstone design project aims at predicting the power output from a small floating ocean thermal energy conversion (OTEC) pilot plant that would be deployed off the southwest coast of Oahu. The design process involves given constraints (a predetermined deep cold seawater intake pipe and flow rate), the scaling down of an existing published OTEC plant design and the use of an available thermodynamic analysis code.

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