

*Department of Ocean and Resources Engineering
Seminar*

**Adaptation to Sea Level Rise: Implications for Coastal
Engineering and Land Use Planning in Hawaii**

By

Dolan Eversole

Coastal Geologist
University of Hawaii Sea Grant College Program

Wednesday, October 28, 2009

MSB 114

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 last century has seen a rapid increase in land use and associated coastal engineering along the coasts with continued development of heavily populated coastal regions worldwide. These communities have become increasingly vulnerable to sea-level rise and variability.

Rising sea levels will contribute to increased storm surge and flooding, leading to more frequent and destructive damage to coastal infrastructure and ecosystems. Rising sea levels will also contribute to the erosion of sandy beaches. Research of sea-level rise and variability along with projected shoreline positions is improving recognition of hazards and allowing governments to evaluate and plan for various response strategies. Future structural and nonstructural adaptation measures will need to include evaluate the cost vs. benefit of armoring in place and relocating critical infrastructure vulnerable to coastal hazards as well as inherent ecosystem protection.

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