JOHNS HOPKINS
Center for Environmental & Applied Fluid Mechanics

Weekly CEAFM Seminar: Spring 2013

Date: **Friday, March 15, 2013**

Time: 11:00 AM

Location: Gilman 50 (Marjorie M. Fisher Hall)

Speaker: **PROF. ROBERT HOLMAN** (Oregon State University)

Title: ***REMOTE SENSING OF THE NEARSHORE***"

Abstract

Understanding and prediction in the nearshore ocean (depths less than 10 m) requires skilled models and accurate input data. Of these, the limiting factor is most commonly the lack of up-to-date estimates of the input bathymetry and wave conditions. In recent years, solutions to this data starvation problem have focused on the use of various remote sensors to estimate the necessary geophysical variables. In this talk I will discuss recent developments in nearshore remote sensing using optical, infrared and marine band radar. The emphasis will be on optical data and the algorithms to transform these inherently noisy data sources into robust results with confidence estimates.

Bio

Robert A. Holman is a Professor of Oceanography in the College of Oceanic and Atmospheric Sciences at Oregon State University. He received his B.S in Math and Physics in 1972 from the Royal Military College of Canada and his PhD in Physical Oceanography in 1979 from Dalhousie University, Halifax, Canada. He has been on the faculty at OSU since then. In 1989-90 he served as a program officer in Coastal Dynamics at the Office of Naval Research. He was selected as the Belle van Zuylen Visiting Chair at the University of Utrecht in 1995 and served on the U.S. MEDEA advisory panel from 1995-2001, continuing since then as a Navy consultant under Mitre. In 2003, he was name SECNAV/CNO Chair in Oceanography. He spent extended visits at the SACLANT Center in La Spezia, Italy, in 2004 and 2006. In 2006, he was awarded the OSU Alumni Association Distinguished Professor Award. His research focuses on nearshore processes and remote sensing.