The Environmental Fluid Dynamics Lecture Series
Presents a Seminar

Mixing over Rough Topography; Recent Observations of Southern Bay of Bengal Currents

Dr. Hemantha Wijesekera
Senior Research Scientist
Naval Research Laboratory
Stennis, Mississippi

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258 Fitzpatrick
Dean’s Boardroom

ABSTRACT

First part of the talk is focused on the flow over topographic feature, East Flower Garden Bank (EFGB), on the Texas-Louisiana shelf. Circulation, mixing, form and frictional drags, and surface wave induced flows will be discussed. The EFGB is a coral bank about 6 km wide and 10 km long located at the shelf edge that rises from 100-m water depth to about 18 m below the sea surface.

Second part of the talk discusses the southern Bay of Bengal currents and salinity intrusions during the northeast monsoon, based on recent observations made in the southern Bay of Bengal as part of the ongoing oceanographic research in the northern Indian Ocean.

BIOGRAPHY

Hemantha Wijesekera is an oceanographer at NRL-SSC, who has extensive experience in field observations, and has led numerous cruise efforts and has a history of working on large-scale, multi-national collaborative field experiments. He holds a BS in mechanical engineering from University of Moratuwa, Sri Lanka, a MS in atmospheric sciences and a PhD in oceanography from Oregon State University. He has research experience and interests in the area of air-sea interaction and upper-ocean physics, and flow-topographic interactions in both coastal- and deep-ocean regimes. He has used profiling, towed, moored and autonomous platforms to conduct his research.