Center for Environmental & Applied Fluid Mechanics

"1D Models of Buoyant Geophysical Flows"

Presented by

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One-Dimensional Turbulence (ODT) uses stochastic mappings to represent turbulent mixing on a one-dimensional line. The model has been used in many fields, including combustion, scalar mixing, convection, and boundary layer studies. This presentation will review the formulation of the model and present results on some applications of geophysical relevance, such as convection, buoyancy reversal, and the atmospheric boundary layer.

Friday, October 31, 2008
11:00 a.m., 110 Maryland Hall