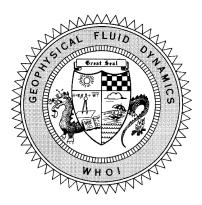
Geophysical Fluid Dynamics Fellowships at the Woods Hole Oceanographic Institution (WHOI)

1999 Program of Summer Study in Geophysical Fluid Dynamics

Stirring and Mixing

June 21 to August 27, 1999



Since 1959 the summer study program in Geophysical Fluid Dynamics (GFD) has brought together graduate students and researchers from a variety of fields who share a common interest in the nonlinear dynamics of rotating, stratified fluids. These fields include classical fluid dynamics, physical oceanography, meteorology, astrophysics, planetary atmospheres, geological fluid dynamics, hydromagnetics, physics and applied mathematics. For the graduate student Fellows, the centerpiece of the summer is a research project that each Fellow pursues under the supervision of the staff. At the end of the summer, each Fellow presents a lecture and a written report for a proceedings volume.

The central theme of the 1999 GFD Program is the stirring and mixing of passive and active tracers in turbulent, stratified, rotating fluids. The problem of mixing in fluids has applications in areas from oceanography to engineering and astrophysics. In geophysical settings, mixing spans and unites a broad range of scales -- from micrometers to megameters. William R. Young (Scripps Institution of Oceanography) will be the principal lecturer. Staff members and shorter-term visitors will give lectures and research seminars on both the particular topic and a wide range of other GFD topics.

Up to ten competitive fellowships are available for graduate students. Successful applicants will receive stipends of \$3,900 and an allowance for travel expenses within the United States. Fellows are expected to be in residence for the full ten weeks of the program. The application deadline is February 16, 1999. Awards will be announced by April 1, 1999. We particularly encourage applications from women and members of underrepresented groups. Application forms may be obtained from the following address or the homepage:

The Fellowship Committee Education Office, Clark Laboratory, MS #31 Woods Hole Oceanographic Institution 360 Woods Hole Road Woods Hole, MA 02543-1541 Telephone: (508) 289-2219 FAX: (508) 457-2188 Email: education@whoi.edu Additional information is available at: http://www.whoi.edu/gfd/

Prospective senior visitors, please email Neil Balmforth at njb@hank.ucsd.edu

The Woods Hole Oceanographic Institution is an Equal Employment Opportunity/Affirmative Action Organization

The GFD Program is funded by the National Science Foundation and the Office of Naval Research