

*The Department of Mathematics at the
University of California, Riverside
is proud to present the*



*Victor L. Shapiro
Distinguished Lecture
in Mathematics*



Given by



Dr. Walter Strauss
of Brown University.

Steady Water Waves

I will consider classical 2D traveling water waves with vorticity. By means of local and global bifurcation theory using topological degree, we now know that there exist many such waves. They are exact smooth solutions of the Euler equations with the physical boundary conditions. The waves may be quite tall. There are periodic ones and solitary ones. I will also exhibit some numerical computations of such waves. Many fundamental problems remain open.

*Wednesday, October 15th, 2014
Tea time is 3:40 p.m.
The talk begins 4:10 p.m.
in Surge 284*