

### ***Unsteady free-surface flows - Michael Page***

This project will examine the factors that affect the unsteady motion of a column of water under the influence of both gravity and surface tension. It will involve reviewing both textbooks and primary sources in the literature for cases where the nonlinear wave equations have been applied to 'everyday' problems, such as the steady flow from a tap, to the lapping of water by a cat, to the bouncing of a drop from a surface.