Diffusively driven flows - Michael Page

Stratified fluids, where the density of a fluid decreases with height due to variations in salt concentration and/or temperature, occur in a number of geophysical applications. In 1970, two independent studies of the behaviour of a linear stratified fluid in a closed container demonstrated a flow could be generated simply due to the container having a sloping boundary surface. Recent experiments show that this same effect can propel a wedge-shaped body through a tank of fluid. This project will examine the factors that influence that surprising motion.