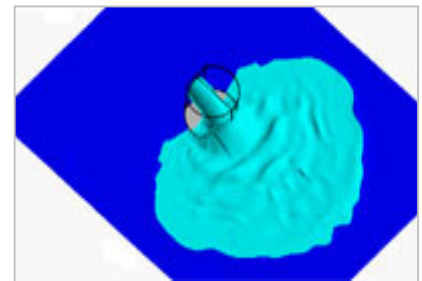
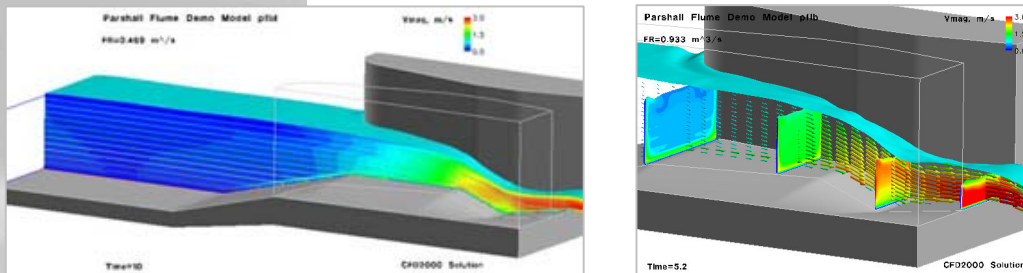


**Introduction**

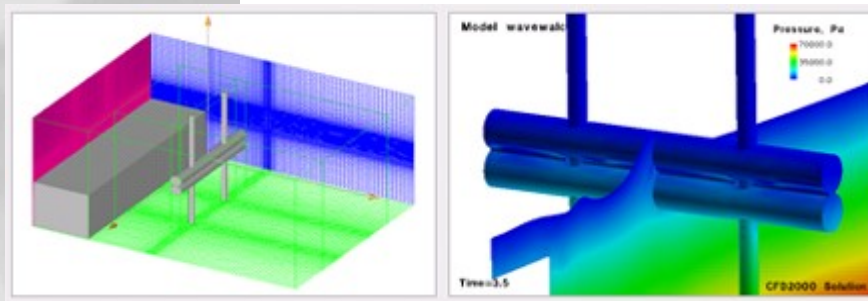
There are many problems in fluid dynamics that involve the analysis of two-phase free surface flows. These flows are characterized by fluids which have large disparities in density and their relative motion is the essence of the multi-phase phenomenon. Fluid surface tension plays a dominant role in the manner in which the fluids interact and largely determines the nature of the interface between fluids. Examples include channels, flumes, tank sloshing, capillary motion, hydrodynamic stability and many others.



*Parshall Flume Simulation*



*Harbor Wave Attenuator Simulation*



*Chemical (LNG) Spills*

