

CURRENT CHALLENGES

(Plate Settler Spacing – Spring '11)

Since the beginning of the semester, we have been working mostly on designing and running two types of experiments: (1) Velocity gradient experiments and (2) Terminal velocity distribution experiment. We are still reminded of a several challenges that remained unresolved. These are:

1 Terminal Velocity Experiments

The final goal is to compare the design capture velocity and effective capture velocity (accounting for the effect of velocity gradient) by means of estimating the terminal velocity distribution of particles over a range of flowrates. The configuration of the experiment might need to be adjusted to account for the flow rate increments.