Figure 3
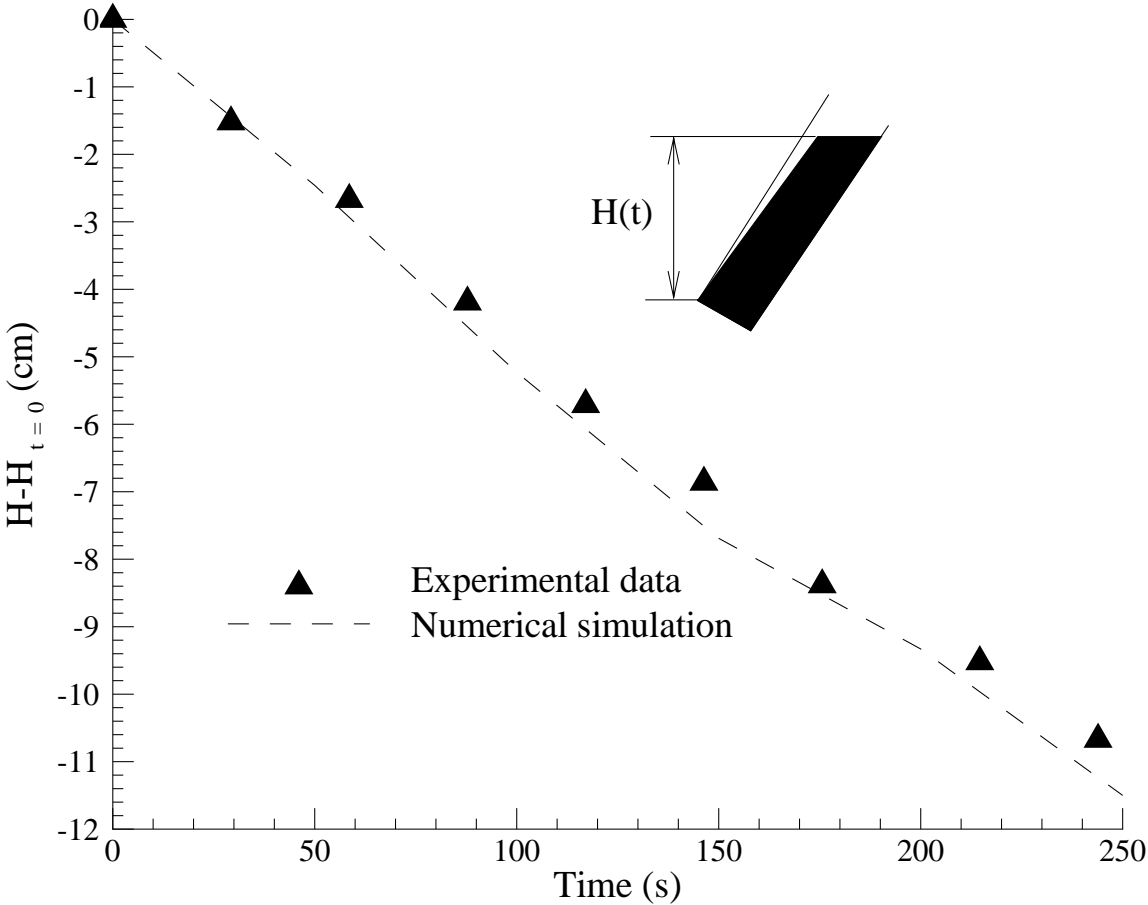
Figure 4

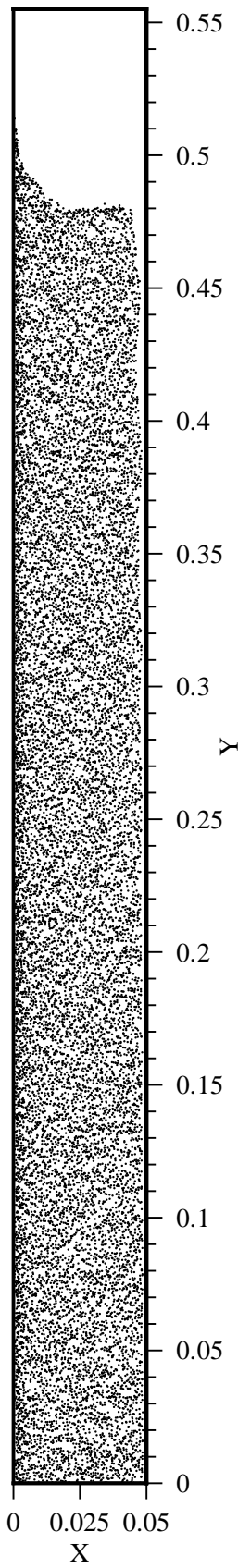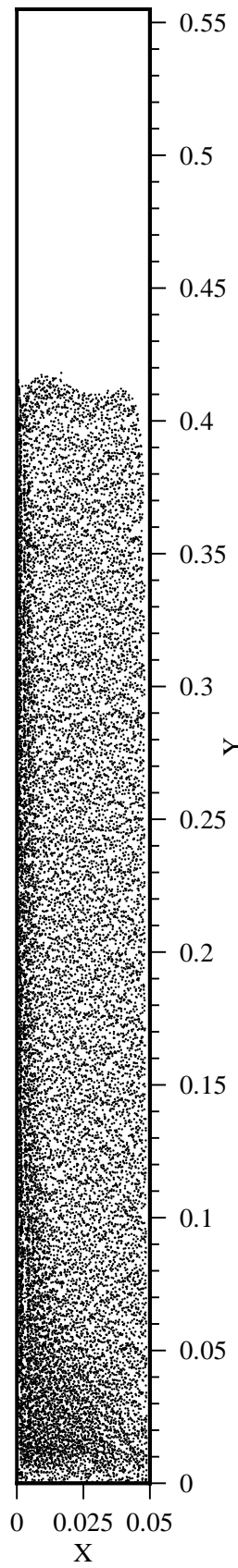(a) t = 50 s

(b) t = 175 s

(c) t = 250 s

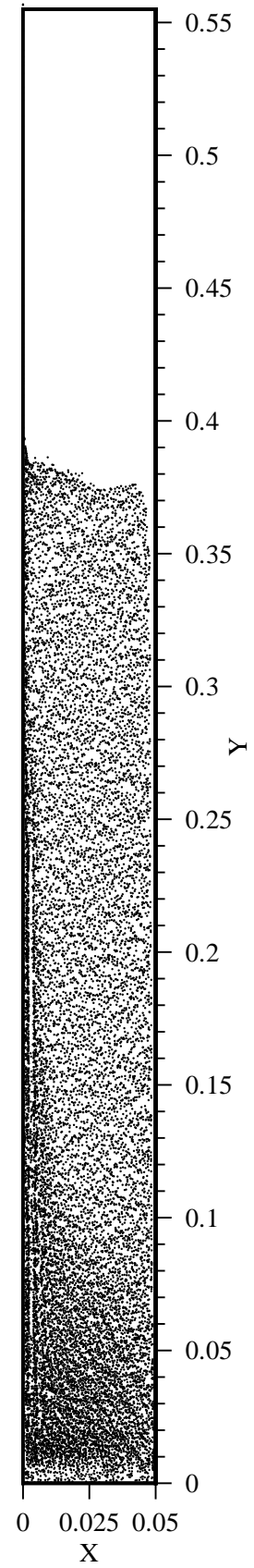Figure 5

t = 16.5 s