

Figure 1(a)



Figure 1(b)

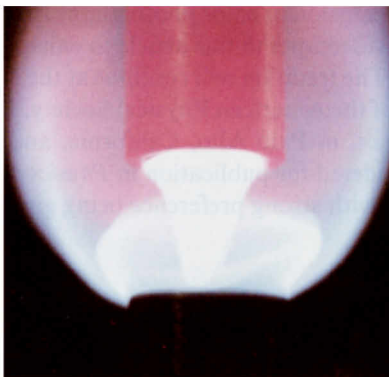


Figure 1(c)

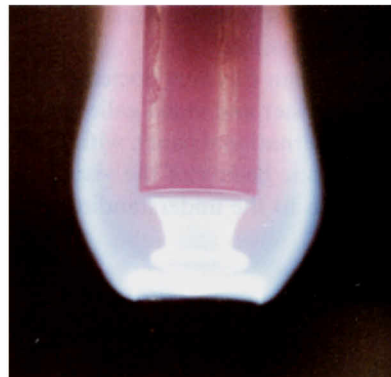


Figure 1(d)

FLAME IMPINGEMENTS

Submitted by Nasser Ashgriz

(State University of New York at Buffalo)

The photographs represent the impingement of methane jet flames on a plate or on each other. Figure 1(a) shows the flame rings generated by the impingement of a single *diffusion* methane flame on a plate from below with

$Re = 3 \times 10^3$. Figure 1(b) shows the impingement of two jets on a plate and the coalescence of the flame rings formed by each jet. The jets are positioned 5 cm from the plate and 4.5 cm from each other. Figures 1(c) and 1(d) show the impingement of two *premixed* methane flames on each other. The Reynolds numbers of the lower jets in Figs. 1(c) and 1(d) are 20 600 and 20 800, and those of the upper jets are 19 300 and 18 200 correspondingly.