



**Figure 6.** Evolution of set-related activity during conditional motor learning: same cell as in Figure 5. *A–C*, Activity during the presentation of three different novel stimuli (*IS*), each instructing movements to the right (*R*). Raster format is the same as in Figure 5. Time scale: major divisions, 1 sec; minor divisions, 100 msec. *D–F*, Each trial-by-trial plot of set-related activity corresponds to the raster at its left, as measured in the final 650 msec before the *TS*. (Because activity is presented for correctly executed trials only, some trials lack activity points.) The broken horizontal lines indicate  $\pm 1$  SD of the mean set-related discharge following the familiar stimulus instructing a rightward movement (see Fig. 5). Solid squares on the x-axis mark the trials in which the monkey made erroneous responses, thus showing correct versus incorrect responses on a trial-by-trial basis. Note that the first correctly executed trials are associated with little or no set-related activity, though stimulus and response are the same as in later trials. This cell was located at the site of the lesion in Figure 16*D*.

*This cell active for movements to the right*

*Also showed that cells less active for movement when it was incorrect → more active for same movement when correct*